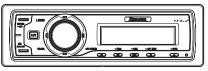
Pioneer sound.vision.soul

Service Manual



ORDER NO. CRT3883

DEH-P690UB/XN/UC

CD RECEIVER

DEH-P690UB,xn/uc DEH-P6900UB,xn/uc DEH-P7950UB,xn/es

This service manual should be used together with the following manual(s):

Model No.	Order No.	Mech.Module	Remarks
CX-3195	CRT3815	S10.5COMP2	CD Mech. Module : Circuit Descriptions, Mech. Descriptions, Disassembly



SAFETY INFORMATION

CAUTION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

Service Precaution



- You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.
- Before disassembling the unit, be sure to turn off the power. Unplugging and plugging the connectors during power-on mode may damage the ICs inside the unit.
- To protect the pickup unit from electrostatic discharge during servicing, take an appropriate treatment (shorting-solder) by referring to "the DISASSEMBLY".
- 4. After replacing the pickup unit, be sure to check the grating.
- Be careful in handling ICs. Some ICs such as MOS type are so fragile that they can be damaged by electrostatic induction.







DEH-P690UB/XN/UC

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In this manual, procedures that must be performed during repairs are marked with the below symbol.

Please be sure to confirm and follow these procedures.

1. Product safety

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Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

3 Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

4 Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

5 Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

6 Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

7 Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

® There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

(9) There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

① Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws

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To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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1. SPECIFICATIONS

DEH-P690UB/XN/UC

Genera	I	
		14.4 V DC (10.8 V to 15.1 V allowable)
	g system ent consumption	Negative type
	urrent	6 mA or less
	ons (W \times H \times D):	
		$178 \times 50 \times 165 \text{ mm}$ (7 × 2 × 6-1/2 in.)
	Nose	$188 \times 58 \times 16 \text{ mm}$ (7-3/8 × 2-1/4 × 5/8 in.)
D	Chassis	$178 \times 50 \times 165 \text{ mm}$ (7 × 2 × 6-1/2 in.)
	Nose	$170 \times 45 \times 16 \text{ mm}$ (6-3/4 × 1-3/4 × 5/8 in.)
Weight	•••••	1.5 kg (3.3 lbs)
Audio		
Maximum	n power output	$50~\mathrm{W} \times 2/4~\Omega + 70~\mathrm{W} \times 1/2$
Continuo	us power output	Ω (for subwoofer) 22 W \times 4 (50 Hz to 15 000 Hz, 5% THD, 4 Ω load, both channels driven)
Load imp	edance	
	ax output level/out _l	put impedance
Equalizer	(7-Band Graphic Euency	
Loudness		±12 dB
Low		+3.5 dB (100 Hz), +3 dB (10 kHz)
Mid		+10 dB (100 Hz), +6.5 dB (10 kHz)
High	l	+11 dB (100 Hz), +11 dB (10 kHz)
HPF:		(volume: –30 dB)
Frequ	uency e	50/63/80/100/125 Hz -12 dB/oct
Subwoofe	er (mono):	50/63/80/100/125 Hz
Slop	e	-18 dB/oct
	se	
Bass boo	st:	
Gain		+12 dB to 0 dB
CD play		Compact dies audie
	SCS	Compact disc audio system Compact disc

Signal format: Sampling frequency 44.1 kHz Number of quantization bits
Frequency characteristics 5 Hz to 20 000 Hz (±1 dB) Signal-to-noise ratio 94 dB (1 kHz) (IHF-A network)
Dynamic range
(Windows Media Player) AAC decoding formatMPEG-4 AAC (iTunes® encoded only) WAV signal formatLinear PCM & MS ADPCM
USB
Specification
250 GB
File system FAT12, FAT16, FAT32 MP3 decoding format MPEG-1, 2 & 2.5 Audio Layer 3
WMA decoding format Ver. 7, 7.1, 8, 9, 10 (2ch
audio) (Windows Media Player) AAC decoding format MPEG-4 AAC (iTunes [®] en- coded only)

FM tuner

Frequency range	87.9 MHz to 107.9 MHz
Usable sensitivity	8 dBf (0.7 μ V/75 Ω , mono,
	S/N: 30 dB)
Signal-to-noise ratio	75 dB (IHF-A network)
Distortion	0.3 % (at 65 dBf, 1 kHz,
	stereo)
	0.1 % (at 65 dBf, 1 kHz,
	mono)
Frequency response	30 Hz to 15 000 Hz (±3 dB)
Stereo separation	45 dB (at 65 dBf, 1 kHz)

AM tuner

Frequency range	530 kHz to 1 710 kHz (10
	kHz)
Usable sensitivity	18 µV (S/N: 20 dB)
Signal-to-noise ratio	65 dB (IHF-A network)



Specifications and the design are subject to possible modifications without notice due to improvements.

DEH-P690UB/XN/UC

DEH-P6900UB/XN/UC

General Power source	. 14.4 V DC (10.8 V to 15.1 V	,
	allowable)	
Grounding system	. Negative type	
Max. current consumption	10.0.0	
Backup current		`
Dimensions (W \times H \times D):		
DIN		
Chassis	. 178 $ imes$ 50 $ imes$ 165 mm	١
N.I.	$(7 \times 2 \times 6-1/2 \text{ in.})$	
Nose	. 188 × 58 × 16 mm (7-3/8 × 2-1/4 × 5/8 in.)	
D	(1-5/6 × 2-1/4 × 5/6 III.)	,
	. 178 × 50 × 165 mm	,
	$(7 \times 2 \times 6-1/2 \text{ in.})$	١
Nose	$170 \times 45 \times 16 \text{ mm}$	
Weight	(6-3/4 × 1-3/4 × 5/8 in.) 1.5 kg (3.3 lbs)	,
· ·	. 1.0 Ng (0.0 100)	,
Audio		
Maximum power output	$50 \text{ W} \times 4$ $50 \text{ W} \times 2/4 \Omega + 70 \text{ W} \times 1/2$	
	Ω (for subwoofer)	
Continuous power output	,	
'	Hz, 5% THD, 4 Ω load, both	,
	channels driven)	
Load impedance	. 4 Ω to 8 Ω $ imes$ 4 4 Ω to 8 Ω $ imes$ 2 + 2 Ω $ imes$ 1	,
Preout max output level/out		,
Equalizer (7-Band Graphic E		
Frequency	. 50/125/315/800/2k/5k/12.5k Hz	
Gain	· ·-	-
Loudness contour:	. = 12 00	
Low	. +3.5 dB (100 Hz), +3 dB (10	
N 4' -1	kHz)	
Mid	. +10 dB (100 Hz), +6.5 dB	
	. +11 dB (100 Hz), +11 dB	
<u> </u>	(10 kHz)	
	(volume: -30 dB)	•
HPF:	E0/62/90/100/10E LI-	
Frequency Slope		
Subwoofer (mono):	. 12 00,000	
Frequency	. 50/63/80/100/125 Hz	
Slope		,
Gain		
PhaseBass boost:	, normal/neverse	Į
Gain	. +12 dB to 0 dB	,
CD mlassa		
CD player	. Compact disc audio system	

Signal format:	
Sampling frequency	. 44.1 kHz
Number of quantization	
Frequency characteristics	.5 Hz to 20 000 Hz (±1 dB)
Signal-to-noise ratio	
	work)
Dynamic range	
Number of channels	
MP3 decoding format	
WMA decoding format	
	audio)
	(Windows Media Player)
AAC decoding format	
	coded only)
WAV signal format	Linear PCM & MS ADPCM
USB	
Specification	LISP 2.0 full appead
Supply current	
Maximum amount of memo	
Maximum amount of memo	
File system	
MP3 decoding format	. MPEG-1, 2 & 2.5 Audio Layer
NA/NA/A	3
WMA decoding format	
	audio)
^ ^ C - f t	(Windows Media Player)
AAC decoding format	
	coded only)
FM tuner	
Frequency range	
Usable sensitivity	
	S/N: 30 dB)
Signal-to-noise ratio	
Distortion	. 0.3 % (at 65 dBf, 1 kHz,

Frequency range	87.9 MHz to 107.9 MHz
Usable sensitivity	8 dBf (0.7 μ V/75 Ω , mono,
	S/N: 30 dB)
Signal-to-noise ratio	75 dB (IHF-A network)
Distortion	0.3 % (at 65 dBf, 1 kHz,
	stereo)
	0.1 % (at 65 dBf, 1 kHz,
	mono)
Frequency response	30 Hz to 15 000 Hz (±3 dB)
Stereo separation	45 dB (at 65 dBf, 1 kHz)

tuner

Frequency range	530 kHz to 1 710 kHz (10
	kHz)
Usable sensitivity	18 µV (S/N: 20 dB)
Signal-to-noise ratio	65 dB (IHF-A network)



Note

cifications and the design are subject to pose modifications without notice due to imvements.

DEH-P7950UB/XN/ES

General		Number of quantizatio	
Rated power source		Fragues av abaractariation	
	(allowable voltage range: 12.0 V to 14.4 V DC)	Frequency characteristics. Signal-to-noise ratio	
Grounding system	. Negative type		work)
Max. current consumption	10.0.4	Dynamic range	
Dealana arment		Number of channels	2 (stereo) MPEG-1 & 2 Audio Layer 3
Backup current	. 6 mA or less	WMA decoding format	
Dimensions (W \times H \times D):		vvvvv v accounting format illini	audio)
DIN	170 × E0 × 16E mm		(Windows Media Player)
	178 × 50 × 165 mm 188 × 58 × 16 mm	AAC decoding format	MPEG-4 AAC (iTunes® en-
D	100 / 00 / 10 11111	\\\\\\\ aignal format	coded only) Linear PCM & MS ADPCM
	178 × 50 × 165 mm	vvAv signai iormat	Linear PCIVI & IVIS ADPCIVI
	170 × 45 × 16 mm	USB	
Weight	1.5 kg	Specification	
Audio		Supply current	
Maximum power output	50 W × 4	Maximum amount of mem-	
	50 W \times 2/4 Ω + 70 W \times 1/2	File system	
	Ω (for subwoofer)		MPEG-1, 2 & 2.5 Audio Layer
Continuous power output	22 W × 4 (50 Hz to 15 000 Hz, 5% THD, 4 Ω load, both	The days and grown at mining	3
	channels driven)	WMA decoding format	
Load impedance	,		audio)
	4 Ω to 8 Ω $ imes$ 2 + 2 Ω $ imes$ 1	AAC dooding format	(Windows Media Player) MPEG-4 AAC (iTunes® en-
Preout max output level/ou		AAC decoding format	coded only)
Equalizer (7-Band Graphic			oddd Grify,
	50/125/315/800/2k/5k/12.5k	FM tuner	
Troquerioy illillillillillillillillillillillillill	Hz	Frequency range	87 5 MHz to 108 0 MHz
Gain	±12 dB	Usable sensitivity	
Loudness contour:		•	S/N: 30 dB)
Low	+3.5 dB (100 Hz), +3 dB (10 kHz)	Signal-to-noise ratio	
Mid	+10 dB (100 Hz), +6.5 dB	Distortion	
TVIIG IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	(10 kHz)		stereo) 0.1 % (at 65 dBf, 1 kHz,
	+11 dB (100 Hz), +11 dB		mono)
		Frequency response	30 Hz to 15 000 Hz (±3 dB)
HPF:	(volume: –30 dB)	Stereo separation	45 dB (at 65 dBf, 1 kHz)
Frequency	50/63/80/100/125 Hz	AM tuner	
Slope			531 kHz to 1602 kHz (9 kHz)
Subwoofer (mono):			530 kHz to 1 640 kHz (10
Frequency			kHz)
Slope Gain		Usable sensitivity Signal-to-noise ratio	
Phase		Signal-to-noise ratio	00 dB (IEC-A network)
Bass boost:		Infrared remote cont	rol
Gain	+12 dB to 0 dB	Wavelength	
CD player		Output	typ; 12 mw/sr per Infrared IFD
	Compact disc audio system		
Usable discs		Note	
Signal format:	444111		doologo ogo cylete ek l
Sampling frequency	44. KHZ	Specifications and the d	design are subject to pos-
		provements.	iout notice due to im-
		provernente.	

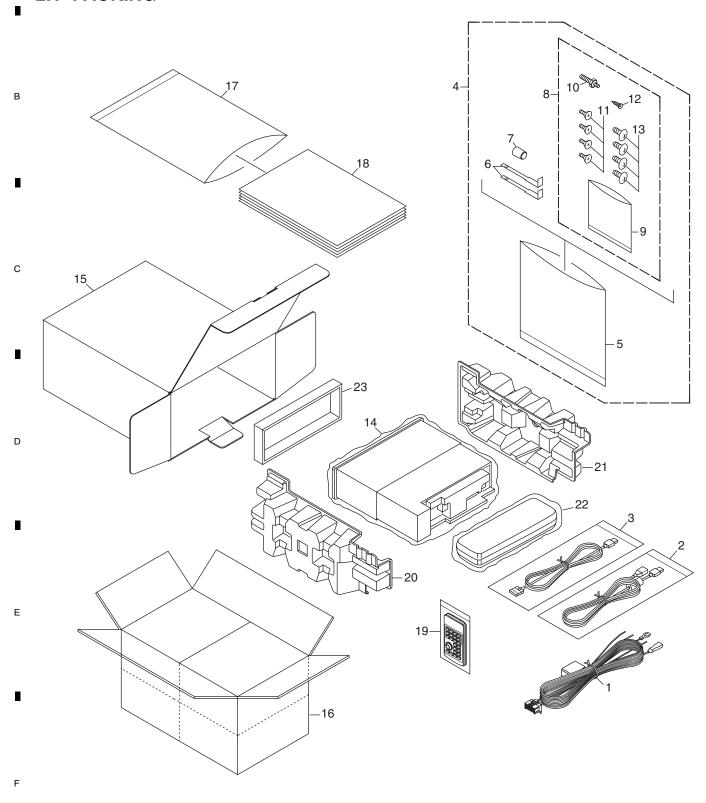
DEH-P690UB/XN/UC

2. EXPLODED VIEWS AND PARTS LIST

NOTES: • Parts marked by "*" are generally unavailable because they are not in our Master Spare Parts List.

- The \(\therefore\) mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Screw adjacent to ∇ mark on the product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

2.1 PACKING



(1) PACKING SECTION PARTS LIST

Mark No.	Description	Part No.	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	
1	Cord Assy	CDP1009	16	Contain Box	See Contrast table(2)	
2	Cord Assy	CDP1040	17	Polyethylene Bag	CEG1116	Α
3	Cord Assy	See Contrast table(2)	18-1	Owner's Manual	See Contrast table(2)	
* 4	Accessory Assy	See Contrast table(2)	18-2	Owner's Manual	See Contrast table(2)	
5	Polyethylene Bag	CEG1160	18-3	Owner's Manual	See Contrast table(2)	
6	Handle	CND3707	18-4	Installation Manual	See Contrast table(2)	
7	Bush	CNV3930	* 18-5	Caution Card	XRP7002	
8	Screw Assy	See Contrast table(2)	* 18-6	Caution Card	See Contrast table(2)	
* 9	Polyethylene Bag	CEG-127	18-7	Caution Card	CRP1310	
10	Screw	CBA1650	* 18-8	Warranty Card	See Contrast table(2)	
			* 18-9	Caution Card	CRP1355	
11	Screw	CRZ50P090FTC				В
12	Screw	See Contrast table(2)	19	Remote Control Unit	CXC5717	
13	Screw	TRZ50P080FTC	20	Protector	CHP3373	
14	Polyethylene Bag	See Contrast table(2)	21	Protector	CHP3374	
15	Carton	See Contrast table(2)	22	Case Assy	XXA7417	
			23	Protector	CHP3375	_

(2) CONTRAST TABLE DEH-P690UB/XN/UC , DEH-P6900UB/XN/UC and DEH-P7950UB/XN/ES are constructed the same except for the following:

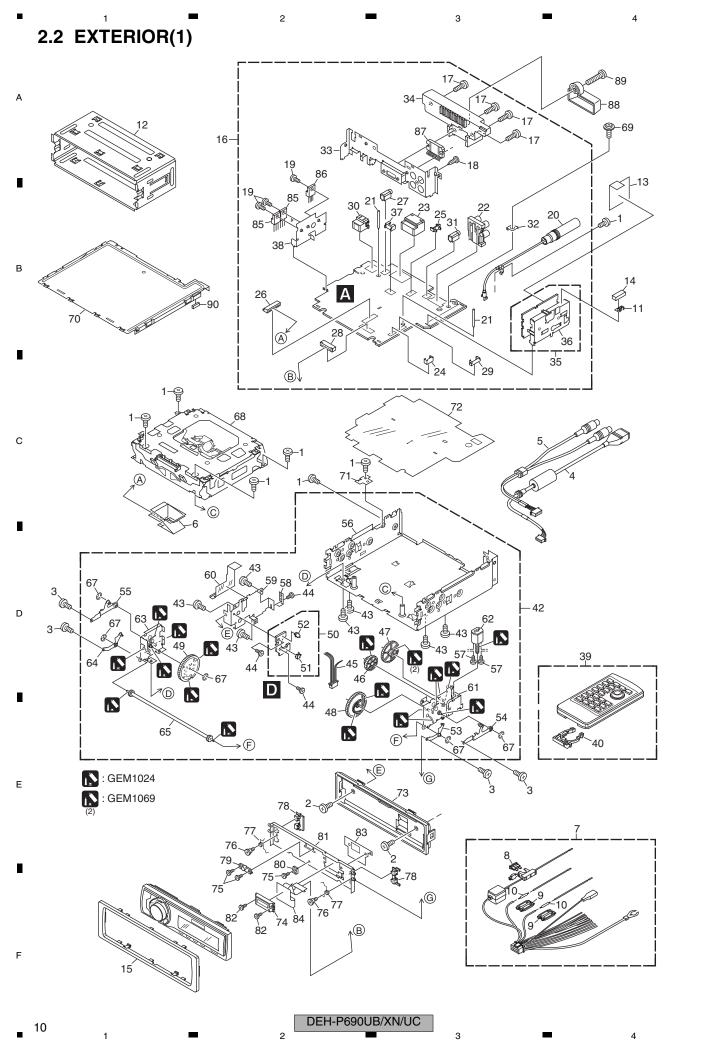
Mark	No.	Description	DEH-P690UB/XN/UC	DEH-P6900UB/XN/UC	DEH-P7950UB/XN/ES
	3	Cord Assy	CDP1041	Not used	Not used
*	4	Accessory Assy	CEA7316	CEA7316	CEA7317
	8	Screw Assy	CEA5322	CEA5322	CEA3849
	12	Scew	JPZ20P060FTB	JPZ20P060FTB	Not used
	14	Polyethylene Bag	CEG1173	CEG1173	CEG-162
	15	Carton	CHG6077	CHG6079	CHG6078
	16	Contain Box	CHL6077	CHL6079	CHL6078
	18-1	Owner's Manual	CRD4160	CRD4162	CRD4164
	18-2	Owner's Manual	Not used	Not used	CRD4165
	18-3	Owner's Manual	Not used	Not used	CRB2320
	18-4	Installation Manual	CRD4161	CRD4163	CRD4166
*	18-6	Caution Card	Not used	CRP1294	Not used
*	18-8	Warranty Card	CRY1070	CRY1246	Not used

Owner's Manual, Installation Manual

Part No.	Language
CRD4160, CRD4161, CRD4162, CRT4163	English, French
CRD4164	English, Spanish
CRD4165	Portuguese(B), Traditional Chinese
CRB2320	Arabic
CRD4166	English, Spanish, Portuguese(B), Traditional Chinese, Arabic

DEH-P690UB/XN/UC

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(1) EXTERIOR(1) SECTION PARTS LIST

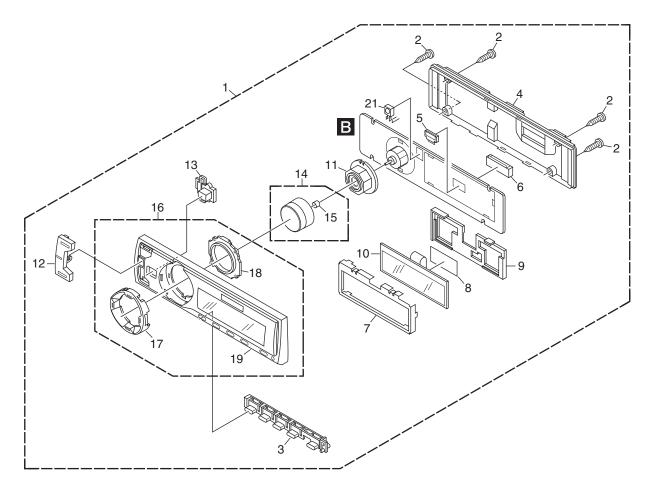
<u>Mark</u>	<u>No.</u>	<u>Description</u>	Part No.	Mark	No.	<u>Description</u>	Part No.	
	1	Screw	BSZ26P060FTC		46	Gear	CNV7752	
	2	Screw(M2.6 x 4)	CBA1828		47	Gear	CNV7753	
	3	Screw(M2 x 2.5)	CBA1924		48	Gear	CNV7754	Α
	4	Cord Assy	CDE8351		49	Gear	CNV7755	
	5	Cord Assy	CDE8352		50	Switch Unit	CWS1389	
	J	Cold Assy	ODE0332					
	6	Cable	CDE8355		51	Switch	CSN1051	
	7	Cord Assy	CDP1009		52	Spring Switch	CSN1052	
\triangle	8	Fuse(10 A)	CEK1136		53	Arm Unit	CXC2199	
<u> </u>	9	Cap	CNS1472		54	Arm Unit	CXC6623	
	10	Resistor	RS1/2PMF102J		55	Arm Unit	CXC6624	
	10	Hesistoi	H31/2FWF1023			7	0710002	
	11	Earth Plate	CND2171	*	56	Chassis Unit	CXC8071	ь
	12	Holder	CND3598		57	Screw	JFZ20P020FTC	В
			CNM8790		58	Spring	XBL7003	
	13	Insulator			59	Holder	XNC7017	
	14	Cushion	CNM9126		60	Insulator	XNM7119	
	15	Panel	See Contrast table(2)		00	modiator	XIVIII I I I	
	10	Turan Amar Unit	Coo Cooting at table (0)		61	Holder Unit	XXA7399	
	16	Tuner Amp Unit	See Contrast table(2)		62	Motor Unit(M3)	XXA7400	
	17	Screw	BMZ26P160FTC		63	Holder Unit	XXA7400 XXA7401	
	18	Screw	BPZ26P070FTC			Arm Unit	XXA7401 XXA7403	
	19	Screw	BSZ26P060FTC		64 65	Gear Unit	XXA7403 XXA7424	
	20	Antenna Cable(CN402)	CDH1336		65	Gear Offic	AAA/424	С
		0.1	0554040		66	••••		C
	21	Clamper	CEF1048			Washer	YE15FTC	
	22	Pin Jack(CN301)	CKB1051		67 69			
	23	Plug(CN991)	CKM1278		68 69	CD Mechanism Module(S10.5) Screw	ISS26P055FTC	
	24	Plug(CN871)	CKS-786					
	25	Plug(CN302)	CKS1238		70	Case	XNB7005	
		. (01)== ()	01/0		71	Holder	XNC7014	
	26	Connector(CN701)	CKS3829		71			
	27	Connector(CN661)	See Contrast table(2)		72 72	Insulator	XNM7114	
	28	Connector(CN801)	CKS4811		73	Panel Unit	See Contrast table(2)	
	29	Connector(CN992)	CKS4830		74 75	Connector	CKS5273	D
	30	Connector(CN101)	CKS5271		75	Screw(M2 x 2)	CBA1871	_
					76	Corour	CDA1005	
	31	Connector(CN271)	CKS5523		76	Screw	CBA1935	
	32	Holder(CN401)	CNC5399		77 70	Spring	CBH2530	
	33	Holder	See Contrast table(2)		78 70	Arm Guide	CNV6962	_
	34	Heat Sink	CNR1894		79	Guide	CNV6967	-
	35	FM/AM Tuner Unit	CWE1952		80	Guide	CNV8048	
					0.1	Case Unit	CVC6400	
	36	Holder	CND1054		81		CXC6483	
	37	Plug(CN151)	KM200NA5L		82	Screw(M2 x 3.5)	XBA7002	
	38	Holder	XNC7011		83	Holder	XNC7019	Е
	39	Remote Control Unit	CXC5717		84	Flexible PCB	XNP7026	
	40	Cover	CZN5357		85	Transistor(Q751,901)	2SD2396	
					0.0	IC(IC011)	N IMODOCEO4	
	41	•••••	0.400		86 97	IC(IC911)	NJM2388F84	
	42	Drive Unit	CXC8072		87	IC(IC351)	PAL007C	
	43	Screw	BMZ26P040FTC		88	Holder	See Contrast table(2)	_
	44	Screw(M2 x 2)	CBA1871		89	Screw	See Contrast table(2)	
	45	Cord	CDE7392		90	Cushion	CNN1405	

DEH-P690UB/XN/UC

(2) CONTRAST TABLE
DEH-P690UB/XN/UC , DEH-P6900UB/XN/UC and DEH-P7950UB/XN/ES are constructed the same except for the following:

Mark	No.	Description	DEH-P690UB/XN/UC	DEH-P6900UB/XN/UC	DEH-P7950UB/XN/ES
	15	Panel	CNS8914	CNS8915	CNS8915
	16	Tuner Amp Unit	CWN2152	CWN2152	CWN2154
	27	Connector(CN661)	CKS4124	CKS4124	Not used
	33	Holder	CND3782	CND3782	CND3783
	73	Panel Unit	XXA7408	XXA7407	XXA7407
	88	Holder	Not used	CNV7619	Not used
	89	Screw	Not used	BMZ40P140FTC	Not used

2.3 EXTERIOR(2)



(1) EXTERIOR(2) SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	<u>Description</u>	Part No.
1	Detach Grille Assy	See Contrast table(2)	12	Button Unit(SRC/BAND)	CXC7257
2	Screw	BPZ20P080FTB	13	Button Unit(LIST)	CXC7264
3	Button	See Contrast table(2)	14	Knob Unit	CXC7271
4	Cover	CNS8491	15	Spring	XBL7005
5	Connector(CN1961)	CKS5545			
			16	Sub Grille Assy	See Contrast table(2)
6	Connector(CN1801)	CKS5662	17	Plate	CNS8854
7	Holder	CND3781	18	Lighting Conductor	CNV9427
8	Double Sided Tape	CNM8673	19	Grille Unit	See Contrast table(2)
9	Holder	CNV9435	20	••••	
10	OEL Unit	MXS8231			
			21	IC(IC1931)	GP1UX31RK
11	Holder	CNV9676			

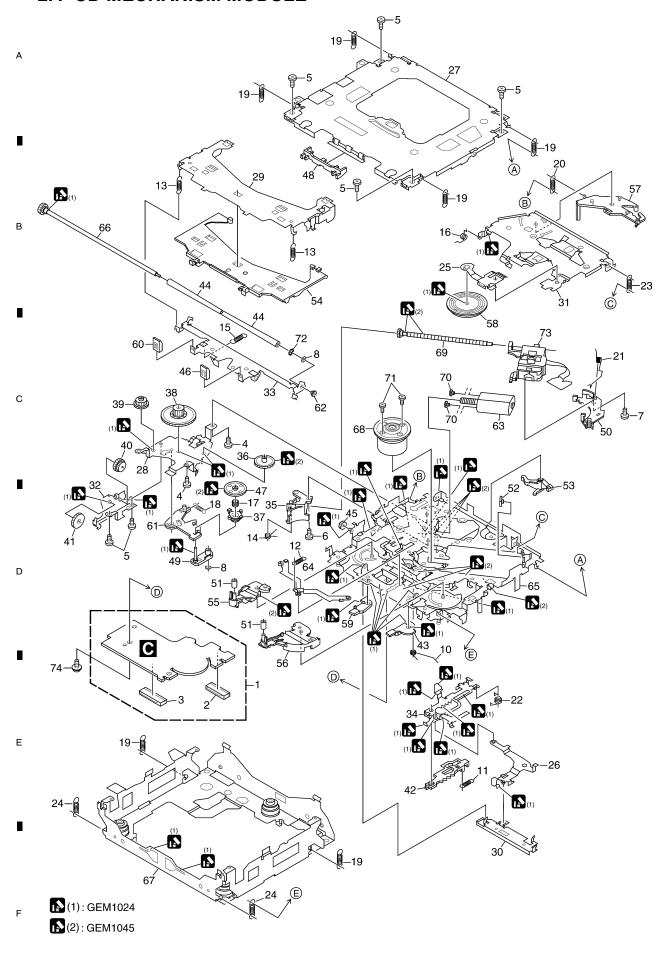
(2) CONTRAST TABLE
DEH-P690UB/XN/UC , DEH-P6900UB/XN/UC and DEH-P7950UB/XN/ES are constructed the same except for the following:

Mark	No.	Description	DEH-P690UB/XN/UC	DEH-P6900UB/XN/UC	DEH-P7950UB/XN/ES
	1	Detach Grille Assy	CXC7125	CXC7126	CXC7127
	3	Button	CAI1120	CAI1142	CAI1142
	16	Sub Grille Assy	CXC7275	CXC7276	CXC7277
	19	Grille Unit	CXC7251	CXC7252	CXC7253

DEH-P690UB/XN/UC

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2.4 CD MECHANISM MODULE



DEH-P690UB/XN/UC

CD MECHANISM	MODULE SEC	TION PARTS LIST

CD Core Unit(\$10.5COMP2)	CD MECHANISM MODULE SECTION PARTS LIST							
Connector(CN1011)	Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.		
3 Connector(CN701) CKS4608 51 Roller CNV8344 Screw	1	CD Core Unit(S10.5COMP2)	CWX3514	50	Rack	CNV8342		
3 Connector(CN701) CK54908 51 Roller CNV8344 4 Serrew BMZ20P026FTC 52 Holder CNV8344 5 Screw BSZ20P040FTC 53 Arm CNV8347 6 Screw(M2 x 3) CBA1511 55 Arm CNV8347 7 Screw(M2 x 4) CBA1685 TO CNV8348 8 Washer CBF1038 56 Arm CNV8349 9 **** 57 Arm CNV8349 10 Spring CBH2809 58 Climper CNV8365 11 Spring CBH2812 60 Guide CNV8396 12 Spring CBH2814 TO CNV8349 TO CNV8349 13 Spring CBH2814 TO CNV8349 TO CNV8349 14 Spring CBH2814 TO CNV8349 TO CNV8349 15 Spring CBH2814 TO CNV8349 TO CNV8349 16 Spring CBH2816 61 Arm CNV8396 17 Spring CBH2817 62 Collar CNV8398 18 Spring CBH2820 63 Motor Unit(M2) CXC4028 19 Spring CBH2837 TO CH2837 TO CH2837 19 Spring CBH2837 TO CH2837 TO CH2839 19 Spring CBH2836 65 Chassis Unit CXC4028 10 Spring CBH2844 TO CNV8349 TO CNV8349 11 Spring CBH2844 TO CNV8349 TO CNV8349 12 Spring CBH2856 TO Screw JF22P020FT 13 Spring CBH2856 TO Screw JF22P020FT 14 Spring CBH2856 TO Screw JF22P020FT 15 Spring CBH2860 TO Screw JF22P020FT 16 Spring CBH2860 TO Screw JF22P020FT 17 Spring CBH2860 TO Screw JF22P020FT 18 Spring CBH2860 TO Screw JF22P020FT 19 Spring CBH2860 TO Screw JF22P020FT 19 Spring CBH2860 TO Screw JF22P020FT 10 Spring CBH2860 TO Screw JF22P020FT 11 Spring CBH2860 TO Screw JF22P020FT 12 Spring CBH2860 TO Screw JF22P020FT 13 Spring CBH2860 TO Screw JF22P020FT 14 Screw JF22P020FT 15 Screw JF22P020FT 16 Screw JF22P020FT 17 Screw JF22P020FT 18 Screw JF22P020FT 19 Screw JF22P020FT 19 Screw JF22P020FT 10 Screw JF22P020FT 11 Screw JF22P020FT 11 Screw JF22P020FT 12 Screw JF22P020FT 13 Screw JF22P020FT 14 Screw JF22P020FT 15 Screw JF22P020FT 16 Screw JF22P020FT 17 Scr	2	Connector(CN101)	CKS4182					
Screw BMZ20P025FTC 52 Holder CNW8345	3		CKS4808	51	Roller	CNV8343		
Society	4		BMZ20P025FTC	52	Holder	CNV8344		
6 Screw(M2 x 3) CBA1511 55 Arm CNV8348 7 Screw(M2 x 4) CBA1835 8 Washer CBF1038 56 Arm CNV8349 9	5	Screw	BSZ20P040FTC	53	Arm	CNV8345		
7 Scriew(M2 x 4) CBF1038 56 Arm CNV8349				54	Guide	CNV8347		
Part	6	Screw(M2 x 3)	CBA1511	55	Arm	CNV8348		
8 Washer		, ,						
9 **** 10 Spring CBH2609 58 Clamper CNV8356 11 Spring CBH2612 60 Guide CNV3396 12 Spring CBH2614 60 Guide CNV3396 12 Spring CBH2614 61 47 Spring CBH2617 62 Collar CNV8413 13 Spring CBH2617 62 Collar CNV8413 15 Spring CBH2617 62 Collar CNV8413 15 Spring CBH2617 62 Collar CNV8413 15 Spring CBH2620 63 Motor Unit(Mz) CXC4026 64 Arm Unit CXC4027 65 Chassis Unit CXC4028 17 Spring CBH2837 86 Gear Unit CXC4029 19 Spring CBH2834 67 Frame Unit CXC4029 19 Spring CBH2842 68 Motor Unit(M1) CXC4031 19 Spring CBH2844 67 Frame Unit CXC4031 19 Spring CBH2842 68 Motor Unit(M1) CXC7134 22 Spring CBH2856 70 Screw Unit CXC4028 12 Spring CBH2860 71 Screw Unit CXC4028 12 Spring CBH2861 72 Washer YE20FTC 12 Spring CBH2861 72 Washer YE20FTC 12 Spring CBH2861 73 Pickup Unit(P10.5)(Service) IMS26P030FT 18 CRW CND2583 12 Arm CND2585 13 Arm CND2585 13 Arm CND2586 14 Lover CND2585 14 Lover CND2585 15 Holder CNV7201 14 Lover CNV7209 18 Gear CNV7209 18 Gear CNV7209 18 Gear CNV7210 14 Gear CNV7216 14 Gear CNV7219 14 Gear CN				56	Arm	CNV8349		
10 Spring		••••		57	Arm	CNV8350		
11 Spring		Spring	CBH2609	58	Clamper	CNV8365		
12 Spring				59	Arm	CNV8386		
12 Spring CBH2614	11	Spring	CBH2612	60	Guide	CNV8396		
13 Spring CBH2616 61 Arm CNV8418 14 Spring CBH2617 62 Collar CNV8418 15 Spring CBH2620 63 Motor Unit(M2) CXC4026 64 Arm Unit CXC4027 16 Spring CBH2855 65 Chassis Unit CXC4028 17 Spring CBH2937 CXC4028 18 Spring CBH2735 66 Gear Unit CXC4028 19 Spring CBH2854 67 Frame Unit CXC4031 20 Spring CBH2854 67 Frame Unit CXC4031 20 Spring CBH2856 70 Screw JF220P020FT 21 Spring CBH2856 70 Screw JF220P020FT 22 Spring CBH2856 71 Screw JZ270P020FT 23 Spring CBH2860 71 Screw JZ270P020FT 24 Spring CBH2861 72 Washer YE20FTC 25 Spring CBH2861 73 Pickup Unit(P10.5)(Service) CXX1942 26 Arm CND1909 27 Frame CND2582 28 Bracket CND2583 CND2583 29 Arm CND2584 30 Lever CND2585 31 Arm CND2586 32 Bracket CND2587 33 Arm CND2586 34 Lever CND2587 35 Holder CNV7201 36 Gear CNV7207 37 Gear CNV7208 38 Gear CNV7209 39 Gear CNV7209 39 Gear CNV7209 39 Gear CNV7214 41 Gear CNV7214 42 Rack CNV7214 43 Arm CNV7216 44 Roller CNV7218 45 Gear CNV7219 46 Guide CNV7219 47 Guide CNV7219 48 Guide CNV7219 49 Guide CNV7219 40 Guide CNV7210 40								
14 Spring				61	Arm	CNV8413		
15 Spring				62	Collar	CNV8938		
64 Arm Unit CXC4027				63	Motor Unit(M2)	CXC4026		
17 Spring CBH2937		-1- 3		64	Arm Unit	CXC4027		
17 Spring CBH2937 66 Gear Unit CXC4029 18 Spring CBH2735 66 Gear Unit CXC4029 19 Spring CBH2854 67 Frame Unit CXC4031 20 Spring CBH2856 68 Motor Unit(M1) CXC7134 69 Screw Unit CXC6359 21 Spring CBH2856 70 Screw Unit CXC6359 22 Spring CBH2860 71 Screw JFZ20P020FT 23 Spring CBH2860 71 Screw JGZ17P022FT 24 Spring CBH2861 72 Washer YE20FTC 25 Spring CBL1686 73 Pickup Unit(P10.5)(Service) CXX1942 74 Screw IMS26P030FT 26 Arm CND1909 27 Frame CND2582 28 Bracket CND2583 29 Arm CND2584 30 Lever CND2585 31 Arm CND2586 32 Bracket CND2587 33 Arm CND2588 34 Lever CND2588 35 Holder CNV7201 36 Gear CNV7207 37 Gear CNV7209 39 Gear CNV7210 40 Gear CNV7216 41 Gear CNV7216 42 Rack CNV7218 43 Arm CNV7216 44 Roller CNV7219 45 Gear CNV7219 46 Guide CNV7219 47 Guide CNV7219 48 Guide CNV7219 49 Guide CNV7219 40 Guide CNV7219 41 Guide CNV7219 42 Guide CNV7219 43 Arm CNV7219 44 Guide CNV7219 45 Guide CNV7361 46 Guide CNV7361 47 CNV7219 48 Guide CNV7361 47 CNV7219 48 CNV7219 49 CNV7219 40 CNV7210 40 CNV7210 41 Guide CNV7219 42 Guide CNV7361 43 CNV7219 44 Guide CNV7361 45 Guide CNV7361 46 Guide CNV7361 47 CRM CNV7210 48 CNV7210 CNV7210 49 CNV7210 CNV7210 40 CNV7210 CNV7210 40 CNV7210 CNV7210 41 CNV7210 CNV7210 42 CNV7210 CNV7210 CNV7210 43 CNV7210 CNV7210 CNV7210 44 CNV7210 CNV7210 CNV7210 45 CNV7210 CNV7210 CNV7210 CNV7210 CNV7210 CNV721	16	Spring	CBH2855	65	Chassis Unit	CXC4028		
18 Spring CBH2735 66 Gear Unit CXC4029 19 Spring CBH2854 67 Frame Unit CXC4031 20 Spring CBH2866 70 Screw Unit CXC6359 21 Spring CBH2866 70 Screw Unit CXC6359 22 Spring CBH2860 71 Screw JFZ20P020FT 23 Spring CBH2860 71 Screw JGZ17P022FT 24 Spring CBH2861 72 Washer YE20FTC 25 Spring CBH2861 73 Pickup Unit(P10.5)(Service) CXX1942 26 Arm CND1909 27 Frame CND2582 28 Bracket CND2583 29 Arm CND2584 30 Lever CND2586 31 Arm CND2586 32 Bracket CND2587 33 Arm CND2588 34 Lever CND2589 35 Holder CNV7201 36 Gear CNV7207 37 Gear CNV7209 39 Gear CNV7210 40 Gear CNV7214 41 Gear CNV7216 44 Roller CNV7218 45 Gear CNV7219 46 Guide CNV7219 46 Guide CNV7219 46 Guide CNV7219 46 Guide CNV7219 47 Guide CNV7219 48 Guide CNV7219 49 Guide CNV7219 40 Guide CNV7219 41 Guide CNV7219 42 Guide CNV7219 43 CNV7219 44 Guide CNV7361 45 Guide CNV7361 46 Guide CNV7361 47 CNV7210 48 CNV7210 49 CNV7210 40 CNV7210 40 CNV7210 41 Guide CNV7361 41 Guide CNV7361 42 CNV7210 43 CNV7210 44 CNV7210 45 CNV7210 46 Guide CNV7361 47 CNV7210 48 CNV7210 49 CNV7210 40 CNV7210 40 CNV7210 41 CNV7210 42 CNV7210 43 CNV7210 44 CNV7210 45 CNV7210 46 Guide CNV7361 47 CNV7210 48 CNV7210 49 CNV7210 40 CNV7210 41 CNV7210 42 CNV7210 43 CNV7210 44 CNV7210 45 CNV7								
19 Spring CBH2854 67 Frame Unit CXC4031				66	Gear Unit	CXC4029		
20 Spring CBH2642 68 Motor Unit(M1) CXC7134			CBH2854	67	Frame Unit	CXC4031		
Spring				68	Motor Unit(M1)	CXC7134		
22 Spring CBH2867 23 Spring CBH2860 71 Screw JGZ17P022FT 24 Spring CBH2861 72 Washer YE20FTC 25 Spring CBL1686 73 Pickup Unit(P10.5)(Service) CXX1942 74 Screw IMS26P030FT 26 Arm CND1909 27 Frame CND2582 28 Bracket CND2583 29 Arm CND2584 30 Lever CND2585 31 Arm CND2586 32 Bracket CND2587 33 Arm CND2588 34 Lever CND2589 35 Holder CNV7201 36 Gear CNV7207 37 Gear CNV7209 39 Gear CNV7209 39 Gear CNV7210 40 Gear CNV7211 41 Gear CNV7214 43 Arm CNV7216 44 Roller CNV7216 44 Roller CNV7219 45 Gear CNV7219 46 Guide CNV7219				69	Screw Unit	CXC6359		
22 Spring CBH2857 23 Spring CBH2860 71 Screw JGZ17P022FTC 24 Spring CBH2861 72 Washer YE20FTC 25 Spring CBL1886 73 Pickup Unit(P10.5)(Service) CXX1942 74 Screw IMS26P030FT 26 Arm CND1909 27 Frame CND2582 28 Bracket CND2583 29 Arm CND2584 30 Lever CND2585 31 Arm CND2586 32 Bracket CND2587 33 Arm CND2588 34 Lever CND2589 35 Holder CNV7201 36 Gear CNV7207 37 Gear CNV7209 39 Gear CNV7209 39 Gear CNV7210 40 Gear CNV7211 41 Gear CNV7214 43 Arm CNV7216 44 Roller CNV7216 44 Roller CNV7219 45 Gear CNV7219 46 Guide CNV7219	21	Spring	CBH2856	70	Screw	JFZ20P020FTC		
23 Spring								
24 Spring CBH2861 72 Washer YE20FTC 25 Spring CBL1686 73 Pickup Unit(P10.5)(Service) CXX1942 26 Arm CND1909 27 Frame CND2582 28 Bracket CND2583 29 Arm CND2584 30 Lever CND2585 31 Arm CND2586 32 Bracket CND2587 33 Arm CND2588 34 Lever CND2589 35 Holder CNV7201 36 Gear CNV7201 37 Gear CNV7209 39 Gear CNV7210 40 Gear CNV7211 41 Gear CNV7216 44 Roller CNV7218 45 Gear CNV7218 46 Guide CNV7219 46 Guide CNV7219		· · · ·		71	Screw	JGZ17P022FTC		
CBL1686 73 Pickup Unit(P10.5)(Service) CXX1942 IMS26P030FT				72	Washer	YE20FTC		
74 Screw IMS26P030FT 26 Arm CND1909 27 Frame CND2582 28 Bracket CND2583 29 Arm CND2584 30 Lever CND2585 31 Arm CND2586 32 Bracket CND2587 33 Arm CND2588 34 Lever CND2589 35 Holder CNV7201 36 Gear CNV7201 36 Gear CNV7208 38 Gear CNV7209 39 Gear CNV7210 40 Gear CNV7211 41 Gear CNV7211 41 Gear CNV7212 42 Rack CNV7214 43 Arm CNV7216 44 Roller CNV7218 45 Gear CNV7219 46 Guide CNV7219	25		CBL1686	73	Pickup Unit(P10.5)(Service)	CXX1942		
27 Frame CND2582 28 Bracket CND2583 29 Arm CND2584 30 Lever CND2585 31 Arm CND2586 32 Bracket CND2587 33 Arm CND2589 34 Lever CND2589 35 Holder CNV7201 36 Gear CNV7207 37 Gear CNV7208 38 Gear CNV7209 39 Gear CNV7210 40 Gear CNV7211 41 Gear CNV7212 42 Rack CNV7214 43 Arm CNV7216 44 Roller CNV7218 45 Gear CNV7219		. 3		74	Screw	IMS26P030FTC		
28 Bracket CND2583 29 Arm CND2584 30 Lever CND2585 31 Arm CND2586 32 Bracket CND2587 33 Arm CND2588 34 Lever CND2589 35 Holder CNV7201 36 Gear CNV7208 38 Gear CNV7208 39 Gear CNV7210 40 Gear CNV7211 41 Gear CNV7212 42 Rack CNV7214 43 Arm CNV7216 44 Roller CNV7218 45 Gear CNV7219 46 Guide CNV7361	26	Arm	CND1909					
29 Arm CND2584 30 Lever CND2585 31 Arm CND2586 32 Bracket CND2587 33 Arm CND2588 34 Lever CND2589 35 Holder CNV7201 36 Gear CNV7207 37 Gear CNV7208 38 Gear CNV7209 39 Gear CNV7210 40 Gear CNV7211 41 Gear CNV7214 42 Rack CNV7214 43 Arm CNV7216 44 Roller CNV7218 45 Gear CNV7219 46 Guide CNV7219	27	Frame	CND2582					
29 Arm CND2584 30 Lever CND2585 31 Arm CND2586 32 Bracket CND2587 33 Arm CND2588 34 Lever CND2589 35 Holder CNV7201 36 Gear CNV7207 37 Gear CNV7208 38 Gear CNV7209 39 Gear CNV7210 40 Gear CNV7211 41 Gear CNV7214 42 Rack CNV7214 43 Arm CNV7216 44 Roller CNV7218 45 Gear CNV7219 46 Guide CNV7219	28	Bracket	CND2583					
31 Arm CND2586 32 Bracket CND2587 33 Arm CND2588 34 Lever CND2589 35 Holder CNV7201 36 Gear CNV7207 37 Gear CNV7208 38 Gear CNV7209 39 Gear CNV7210 40 Gear CNV7211 41 Gear CNV7211 41 Gear CNV7212 42 Rack CNV7214 43 Arm CNV7216 44 Roller CNV7218 45 Gear CNV7219 46 Guide CNV7361	29	Arm	CND2584					
32 Bracket CND2587 33 Arm CND2588 34 Lever CND2589 35 Holder CNV7201 36 Gear CNV7207 37 Gear CNV7208 38 Gear CNV7209 39 Gear CNV7210 40 Gear CNV7211 41 Gear CNV7212 42 Rack CNV7214 43 Arm CNV7216 44 Roller CNV7218 45 Gear CNV7219	30	Lever	CND2585					
32 Bracket CND2587 33 Arm CND2588 34 Lever CND2589 35 Holder CNV7201 36 Gear CNV7207 37 Gear CNV7208 38 Gear CNV7209 39 Gear CNV7210 40 Gear CNV7211 41 Gear CNV7212 42 Rack CNV7214 43 Arm CNV7216 44 Roller CNV7218 45 Gear CNV7219								
33 Arm CND2588 34 Lever CND2589 35 Holder CNV7201 36 Gear CNV7207 37 Gear CNV7208 38 Gear CNV7209 39 Gear CNV7210 40 Gear CNV7211 41 Gear CNV7212 42 Rack CNV7214 43 Arm CNV7216 44 Roller CNV7218 45 Gear CNV7219 46 Guide CNV7361	31	Arm	CND2586					
34 Lever CND2589 35 Holder CNV7201 36 Gear CNV7207 37 Gear CNV7208 38 Gear CNV7209 39 Gear CNV7210 40 Gear CNV7211 41 Gear CNV7212 42 Rack CNV7214 43 Arm CNV7216 44 Roller CNV7218 45 Gear CNV7219	32	Bracket	CND2587					
35 Holder CNV7201 36 Gear CNV7207 37 Gear CNV7208 38 Gear CNV7209 39 Gear CNV7210 40 Gear CNV7211 41 Gear CNV7212 42 Rack CNV7214 43 Arm CNV7216 44 Roller CNV7218 45 Gear CNV7219	33	Arm	CND2588					
36 Gear CNV7207 37 Gear CNV7208 38 Gear CNV7209 39 Gear CNV7210 40 Gear CNV7211 41 Gear CNV7212 42 Rack CNV7214 43 Arm CNV7216 44 Roller CNV7218 45 Gear CNV7219	34	Lever	CND2589					
37 Gear CNV7208 38 Gear CNV7209 39 Gear CNV7210 40 Gear CNV7211 41 Gear CNV7212 42 Rack CNV7214 43 Arm CNV7216 44 Roller CNV7218 45 Gear CNV7219 46 Guide CNV7361	35	Holder	CNV7201					
37 Gear CNV7208 38 Gear CNV7209 39 Gear CNV7210 40 Gear CNV7211 41 Gear CNV7212 42 Rack CNV7214 43 Arm CNV7216 44 Roller CNV7218 45 Gear CNV7219 46 Guide CNV7361								
38 Gear CNV7209 39 Gear CNV7210 40 Gear CNV7211 41 Gear CNV7212 42 Rack CNV7214 43 Arm CNV7216 44 Roller CNV7218 45 Gear CNV7219 46 Guide CNV7361	36	Gear	CNV7207					
39 Gear CNV7210 40 Gear CNV7211 41 Gear CNV7212 42 Rack CNV7214 43 Arm CNV7216 44 Roller CNV7218 45 Gear CNV7219 46 Guide CNV7361	37	Gear	CNV7208					
40 Gear CNV7211 41 Gear CNV7212 42 Rack CNV7214 43 Arm CNV7216 44 Roller CNV7218 45 Gear CNV7219 46 Guide CNV7361	38		CNV7209					
41 Gear CNV7212 42 Rack CNV7214 43 Arm CNV7216 44 Roller CNV7218 45 Gear CNV7219 46 Guide CNV7361	39	Gear	CNV7210					
42 Rack CNV7214 43 Arm CNV7216 44 Roller CNV7218 45 Gear CNV7219 46 Guide CNV7361	40	Gear	CNV7211					
42 Rack CNV7214 43 Arm CNV7216 44 Roller CNV7218 45 Gear CNV7219 46 Guide CNV7361								
43 Arm CNV7216 44 Roller CNV7218 45 Gear CNV7219 46 Guide CNV7361		Gear						
44 Roller CNV7218 45 Gear CNV7219 46 Guide CNV7361								
45 Gear CNV7219 46 Guide CNV7361								
46 Guide CNV7361								
	45	Gear	CNV7219					
	16	Guide	CNIV7361					
// 1-00r ('NV/7606			CNV7361 CNV7595					
47 Gear CNV7595 48 Guide CNV7799								
49 Arm CNV7895								
TO AIIII ONV/000	49	AIII	OIN V / OOJ					

DEH-P690UB/XN/UC

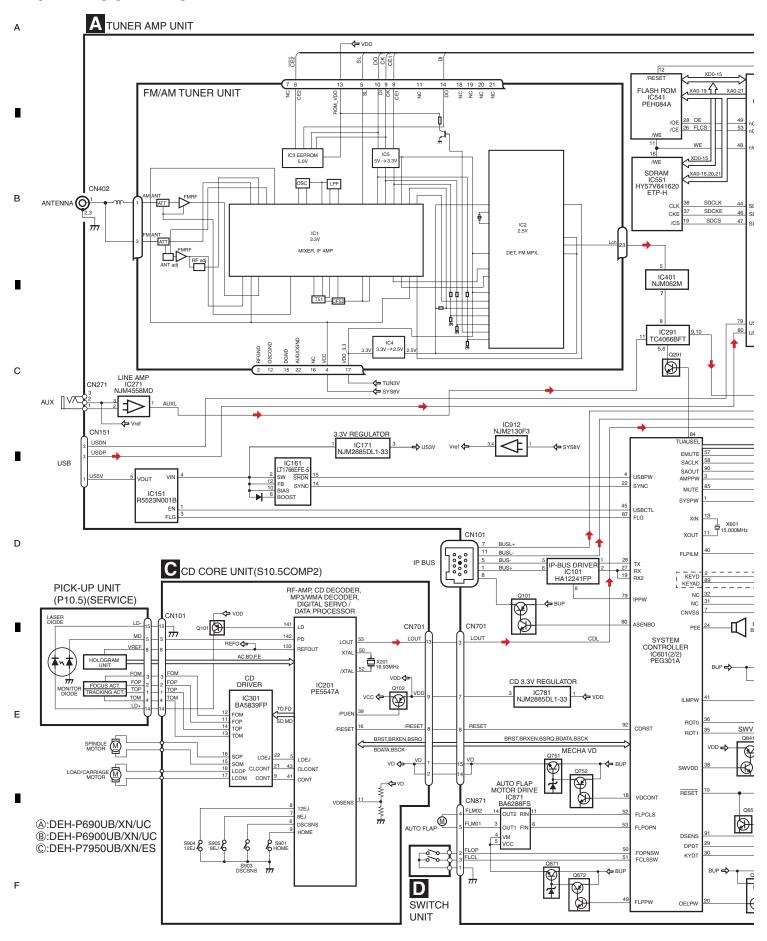
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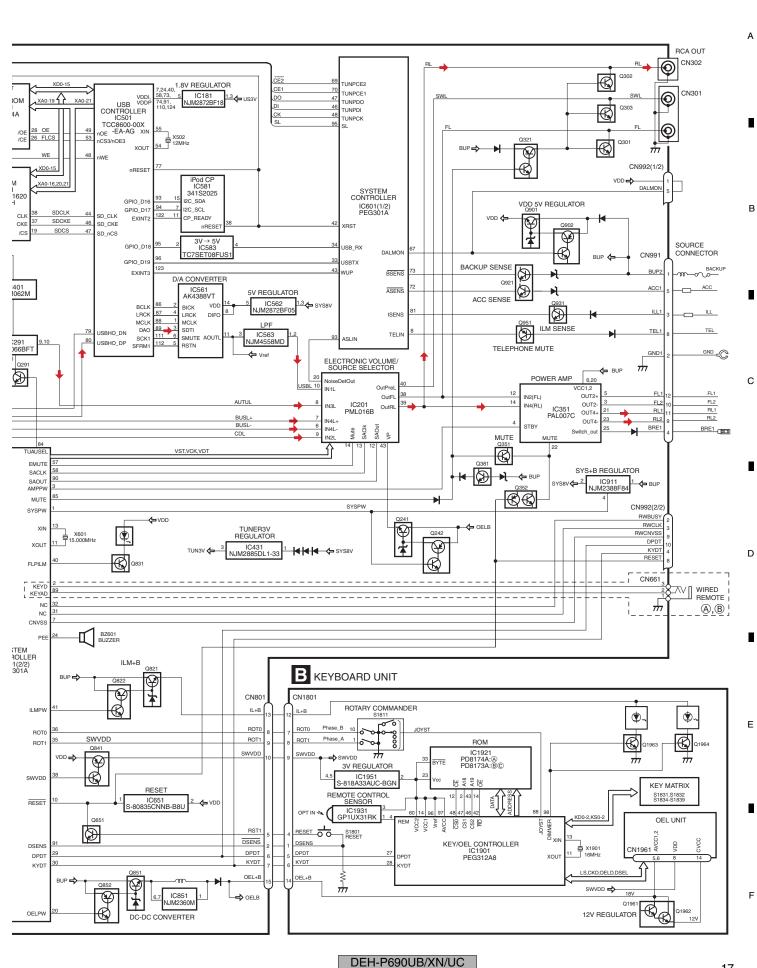
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM



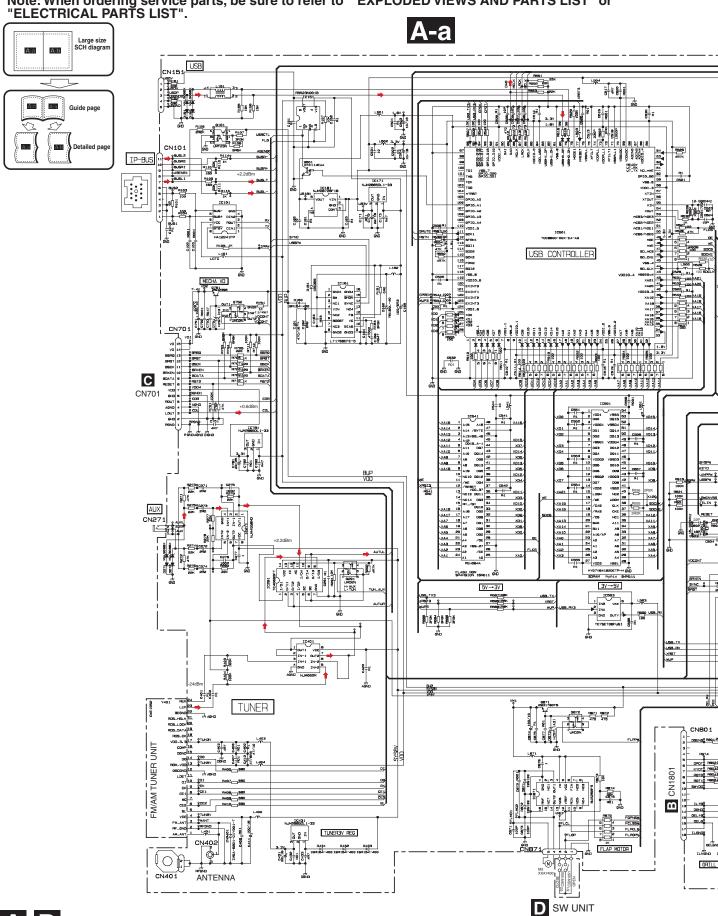
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DEH-P690UB/XN/UC



3.2 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)

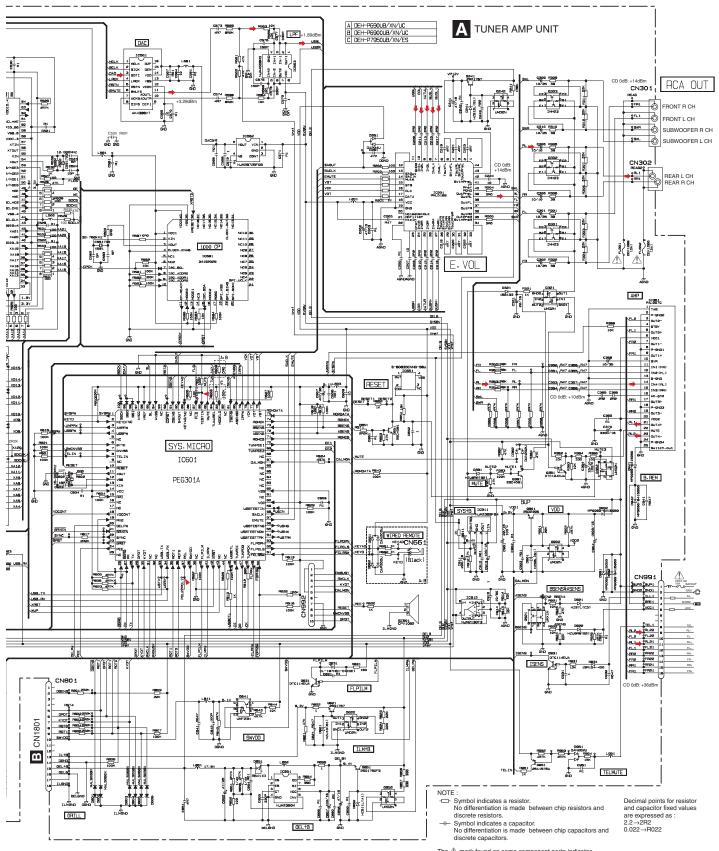
Note: When ordering service parts, be sure to refer to " EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".



DEH-P690UB/XN/UC

В

A-b



The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

A

В

С

D

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SUBWOOFER R CH SUBWOOFERLCH REAR L CH REAR R CH FRONT L CH RCA IN1 (FR)
IN2 (FL)
S-GND
IN4 (RL)
IN3 (RR)
AC-GND CN302 HCAG29 P PAL007c CN301 EU308 CD 0dB: +14dBm AMP H. (3V) CEK 1580 C365 C366 訓訓 C352 | R47 C356 | R47 C351 | R47 C355 | R47 C353 R47 C357 R47 CD 0dB: +10dBm 铝 623 0301 4C2 Hazi 1 GND24 Tabut 1 INP Tabut 1 OUTES UNDEN 623 462 B22 m 3B1 C11 7 6E1 1 GND1 C310 R310 C305 R305 10/10 39 C302 R302 C309 R309 C305 R305 C301 R301 A TUNER AMP UNIT THE BY THE 1555193 띮 CD 0dB: +14dBm Lfg R352178K RL PSF31BBK 8 8 8 AZHP. CS43 HSS 35 35 HZ815F(B1) 9 HERE SOLLTHE SOLUTION SOLLTHE SOLUTION SOL 2501 VBV CSS3 VBV CSS1 JATUOT JANATVS Janatuo ننا ALGE ADD ZAZBA OEFB SATUE CS19 CS19 CS19 02 18 28 Loute SYSBV VDD IN4C+ CSTE | SHS сон Аития дызн+ дызн-CS12 SHS CST4 SHS FISOB Ered INIR INZE INZE INZE TENI UTUA CS08 SH2 4 > 6 S CSTT I SHS | DATE | HBS S-80835CNNE IC651 aUT DEH-P690UB/XN/UC
DEH-P6900UB/XN/UC
DEH-P7950UB/XN/ES <u>ال</u> SET SET SETS RESET C203 C203 C203 HOMDATA BSENS ASENS HOMCK BSENS ASENS HOMCS SAGUT SACLK EMUTE VST VCK ES ES 100K H813 100K H818 MddMY B130 | 1100 200 | 664 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | **185**15 VB2Y2 . Н этома CEZI £g CFOCK-ODL 3ST
NOTIFIED
NOTIFIED 數量 勸業 4H7 ₽± IC581 34152025 **影** cee 1 SYS. TUDAR CDHST VC MCLK 1 MCLK DZF 16 SSAV 10K 10K 10K 159, 100K 159, 100K 159, 100K JS JBHA DAC AMP BSCK 탏 R001 CS33 R 2 3WCNVSS CSS-3 MddW DEH-P690UB/XN/UC

3

4

3

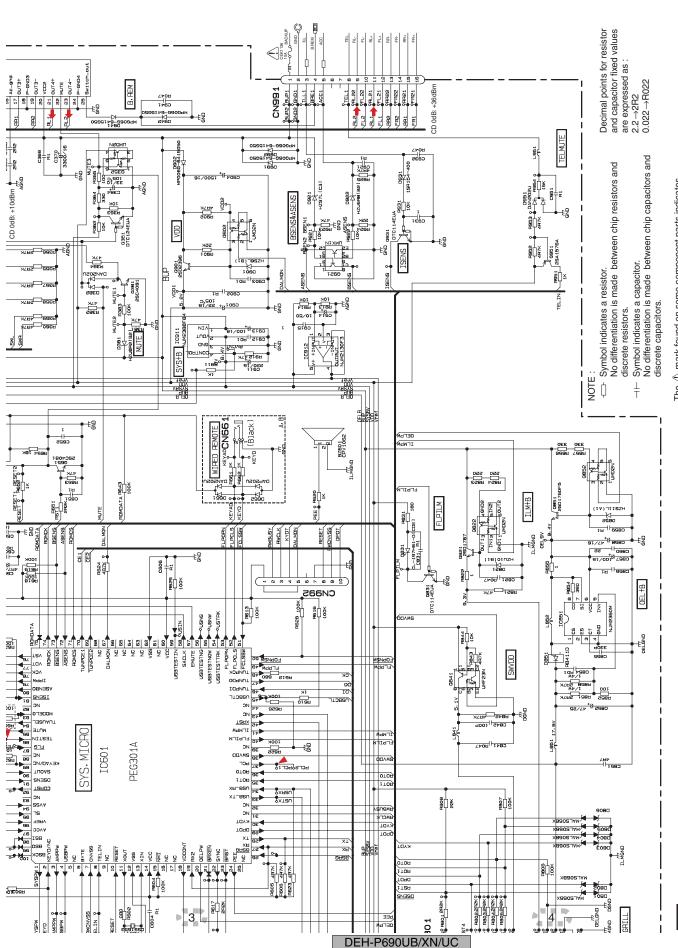
H364

В

С

A-b

D



6

6

5

5

The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

A-b

A-a

В

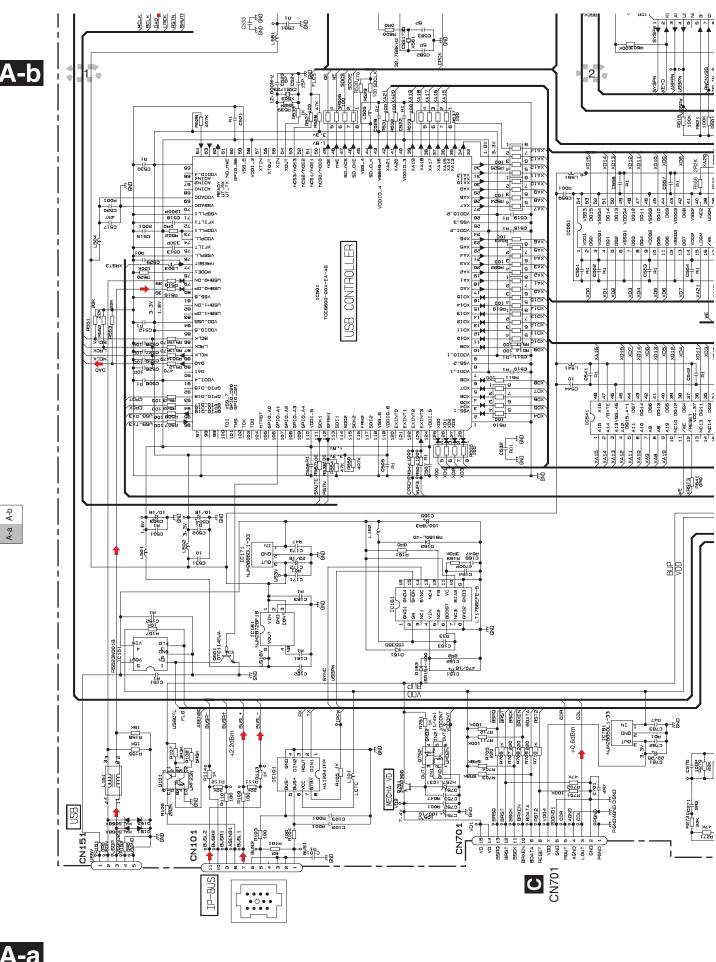
С

D

Е

A-b

8



3

1

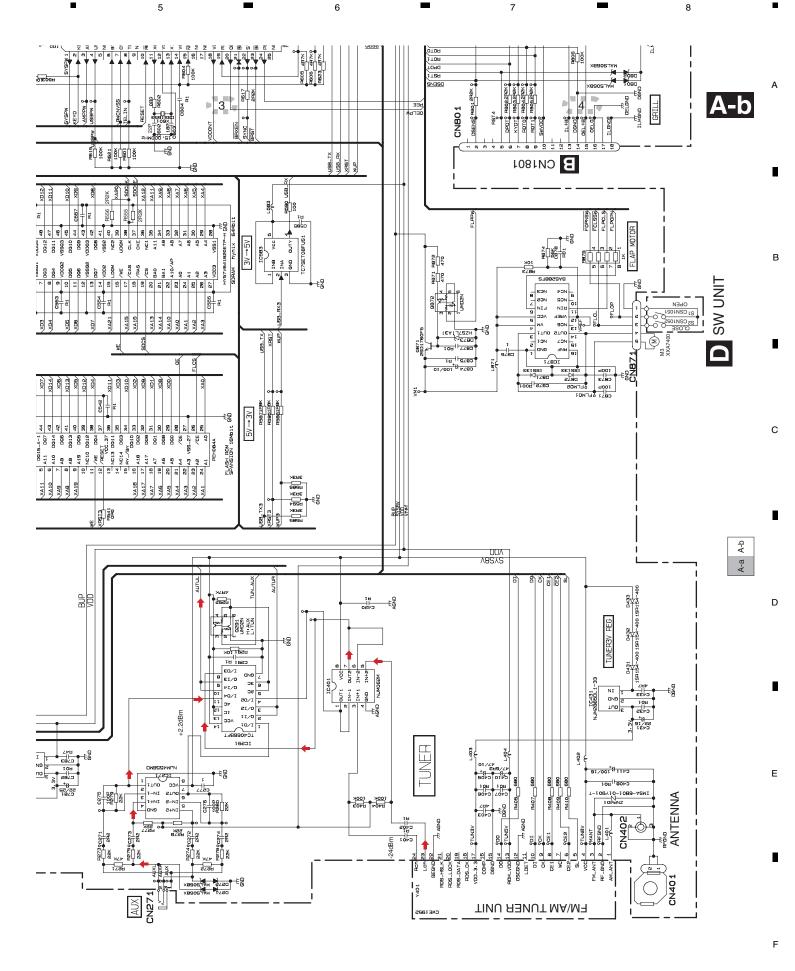
A-b

А-а

D

2

DEH-P690UB/XN/UC

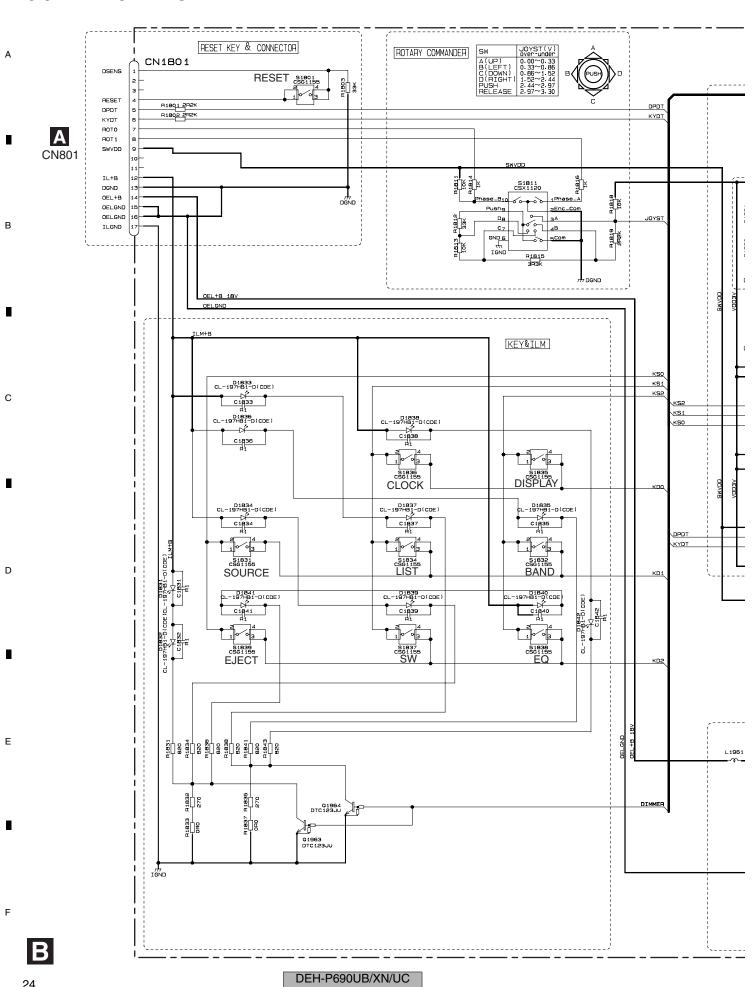


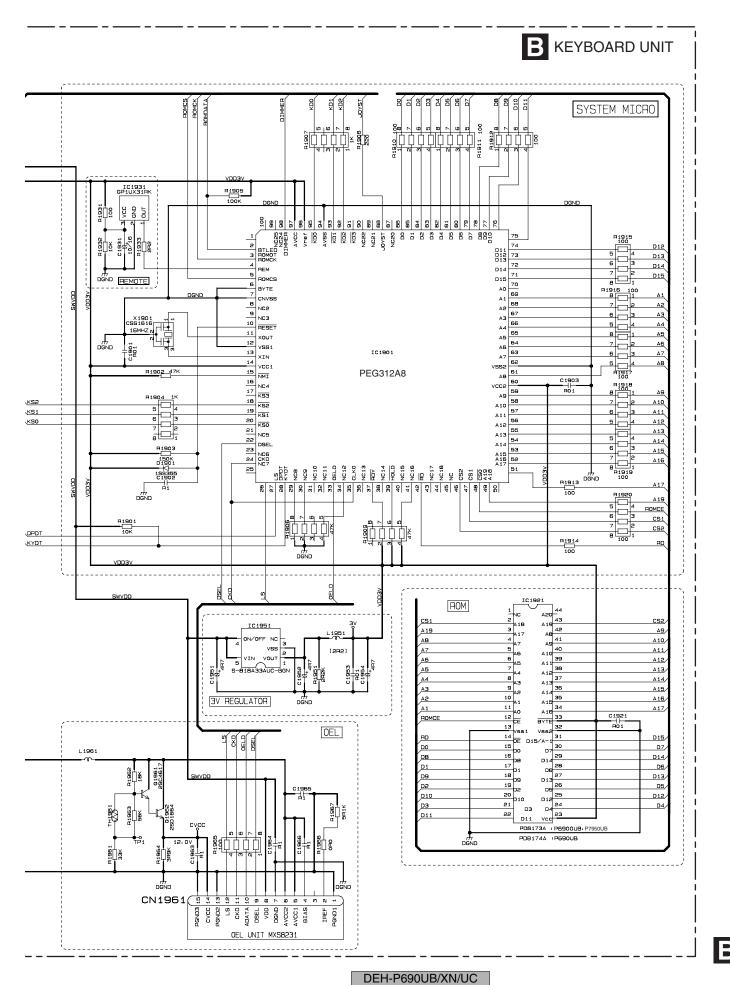
A-a D

8

DEH-P690UB/XN/UC

3.3 KEYBOARD UNIT





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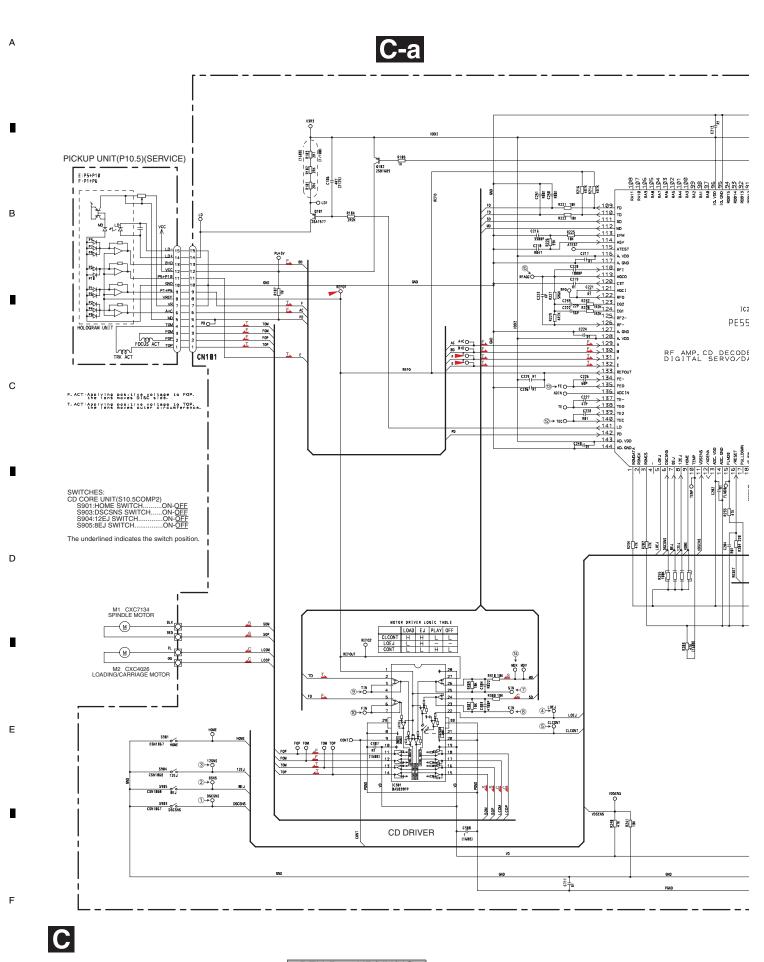
В

С

D

Ε

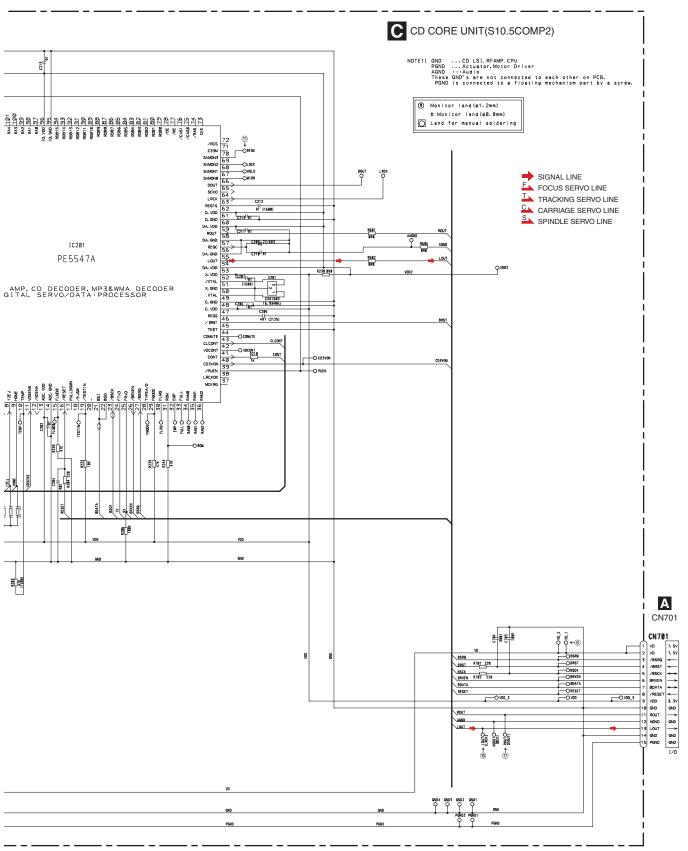
3.4 CD MECHANISM MODULE(GUIDE PAGE)



26

DEH-P690UB/XN/UC

C-b



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5

C

DEH-P690UB/XN/UC

2

27

В

С

D

Е

...CD LSI, RFAMP, CPU
...Actuator, Motor Driver
...Actuator, Motor Driver
...Audio
...Dub's are not connected to each other on PCB.
is connected to a floating mechanism part by a screw. SIGNAL LINE

F FOCUS SERVO LINE

T TRACKING SERVO LINE

C CARRIAGE SERVO LINE

S SPINDLE SERVO LINE CD CORE UNIT(S10.5COMP2) Land for manual soldering Q VDD2 #:Monitor land (#0.8mm) Monitor land (#1.2mm) GND PGND AGND These CD3V0N AGND BRST NOTE1) **@** \bigcirc PAGN Oşo 2 2 2 2 3 3 3 3 3 EE 023 §0-R238 8R8 O CD3VON O PUEN 16287/| KI (1688) CONT CSS1683 R1 (1688) C289_{1/2}2/6R3 C218 R1 C285 C214 PR1 O VDCONT R218 OLOCK OHOLD **OMIRR** -O CDMUTE C286 167 CZTTIRT 72 72 72 72 72 Symbols
Symbol CONT SMAS ## 300 ## O ROM RAMB O— **LMA9** FULL RAM0 FULL O EMP EWP O-AMP, CD DECODER, MP3&WMA DECODER ITAL SERVO/DATA PROCESSOR 20 ELRO 20 FLRO 29 FMODE FLRQ O-------\B260 \B6XEN FR×D G×T∃ ±Z ₹Z \B2CK B20 PE5547A 0Z 61 81 10201 VIESTIN _E∩SW 00 | EAS 00 | EAS 90 | CAS 90 | C C213 1 DEH-P690UB/XN/UC

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А

В

С

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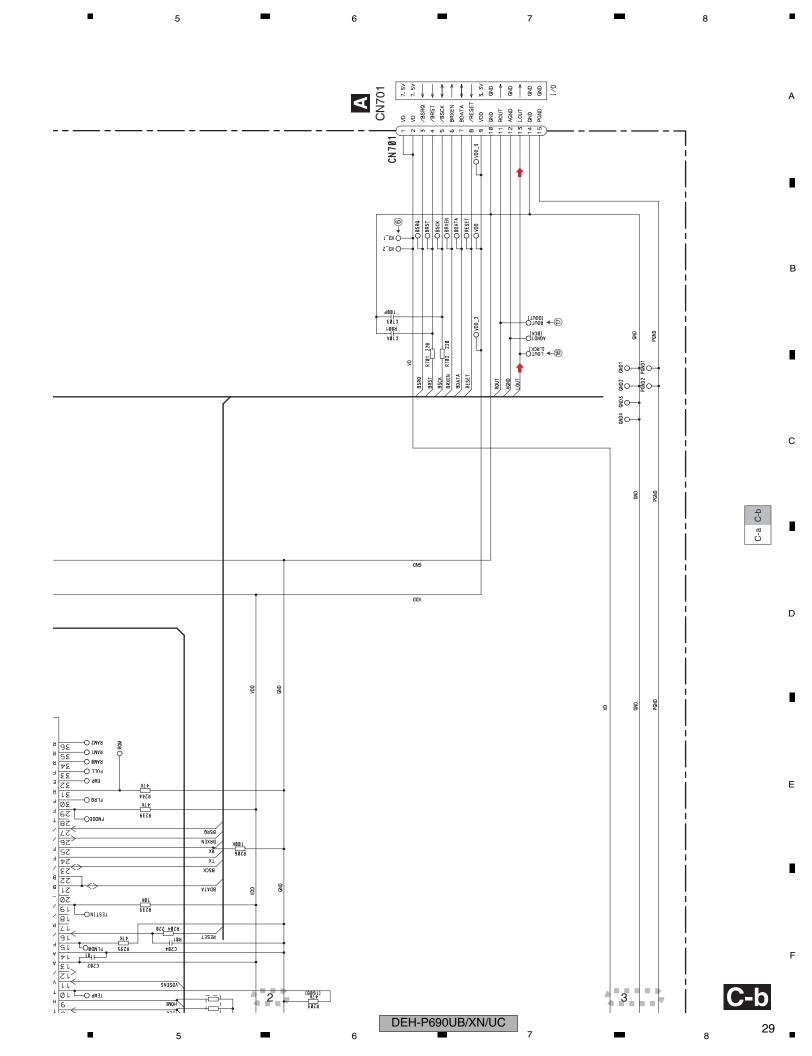
C-p

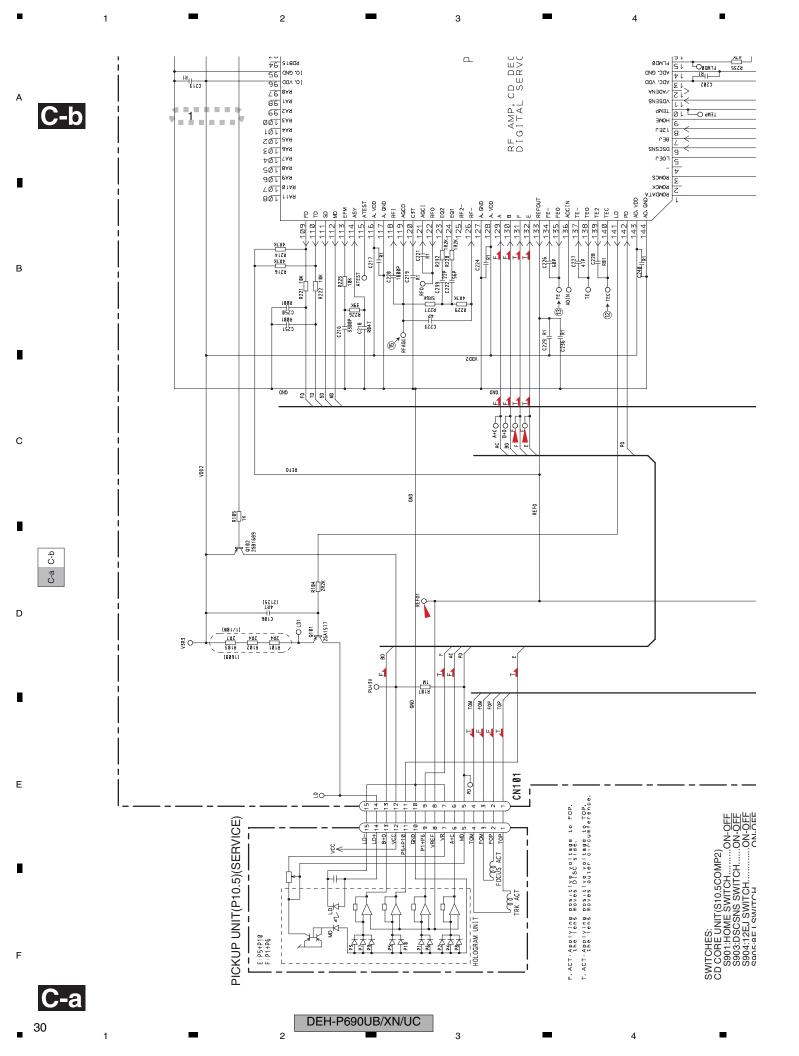
C-a

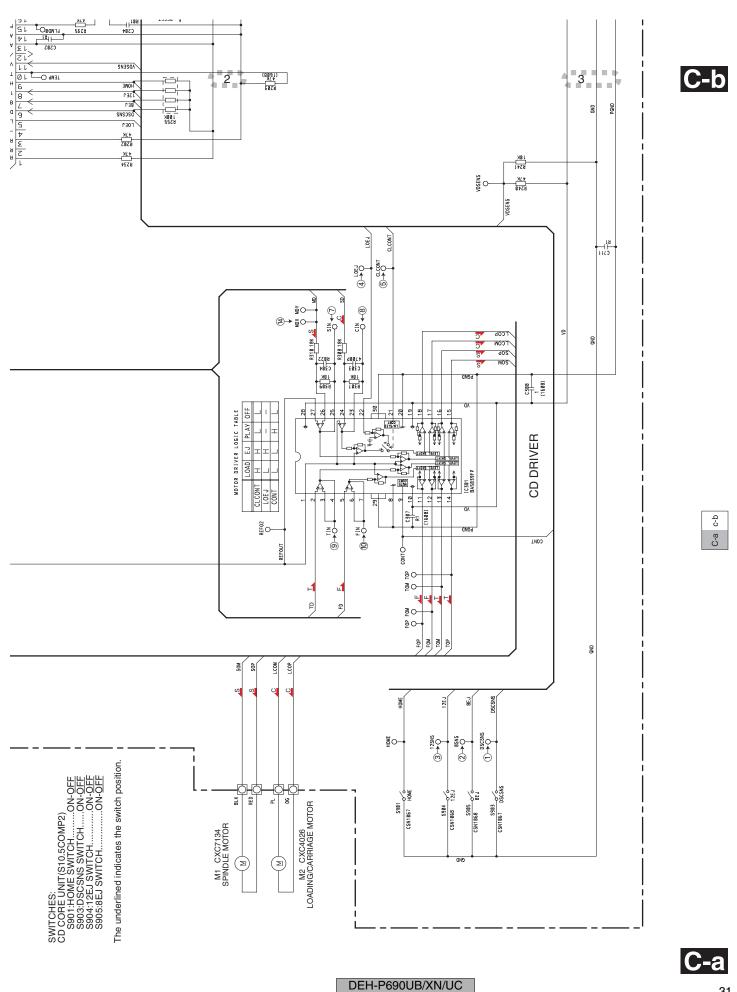
D

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В

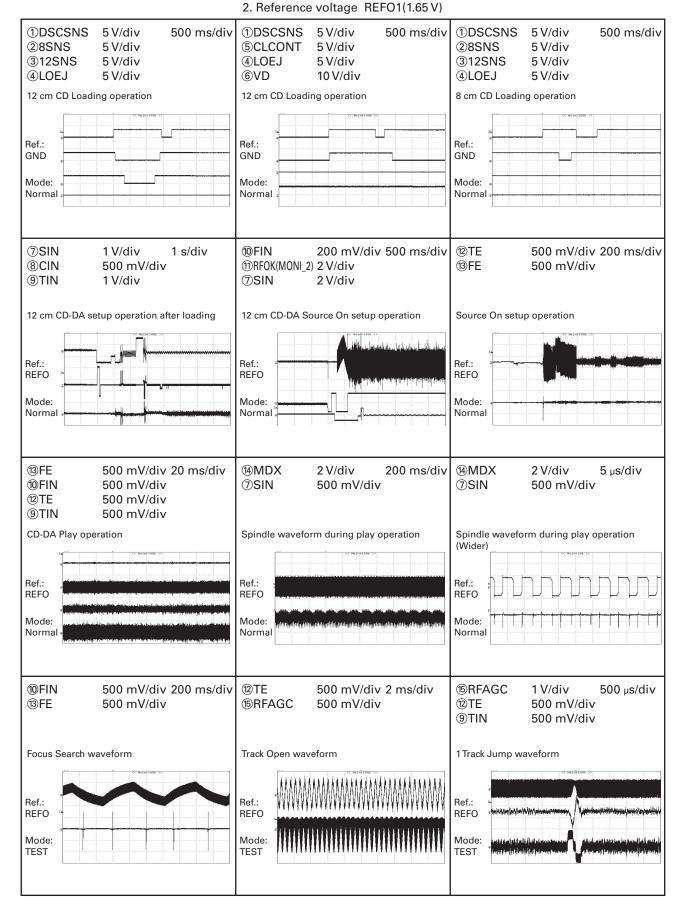
С

D

Е

Waveforms

Note: 1. The encircled numbers denote measuring points in the circuit diagram.



32

С

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500 µs/div 500 µs/div 15RFAGC 1 V/div **®RFAGC** 1 V/div 15RFAGC 1 V/div 2 ms/div 500 mV/div 500 mV/div 12TE 12TE **12TE** 500 mV/div 9TIN 500 mV/div 9TIN 500 mV/div 9TIN 500 mV/div 4Tracks Jump waveform 10 Tracks Jump waveform 32 Tracks Jump waveform Ref.: REFO Ref.: Ref.: **REFO** REFO Mode: Mode: Mode: TEST TEST **TEST ®RFAGC** 1 V/div 200 ms/div **®LOUT** 1 V/div 200 µs/div ①DSCSNS 5 V/div 500 ms/div **®ROUT** 12TE 1 V/div 1 V/div **28SNS** 5 V/div ®CIN 1 V/div **312SNS** 5 V/div 7)SIN 2 V/div **4**LOEJ 5 V/div Search operation(Outter to Inner) Analog audio waveform 12 cm CD Eject operation Ref.: Ref.: Ref.: **REFO AGND GND** Mode: Mode: Mode: Normal Normal Normal 1)DSCSNS 5 V/div 500 ms/div ①DSCSNS 5 V/div 500 ms/div **®RFAGC** 1 V/div 500 µs/div (5) CLCONT 5 V/div **2)8SNS** 5 V/div 9TIN 1 V/div **4**LOEJ 5 V/div **312SNS** 5 V/div (12)TE 1 V/div **10FIN** 1 V/div **4**LOEJ 5 V/div 12 cm CD Eject operation 8 cm CD Eject operation Black dot(800 µm) during play Ref.: Ref.: Ref.: GND GND **REFO** Mode: Mode: Mode: Normal Normal Normal

DEH-P690UB/XN/UC

33

В

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Е

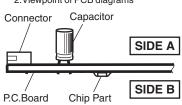
4. PCB CONNECTION DIAGRAM 4.1 TUNER AMP UNIT

NOTE FOR PCB DIAGRAMS

1. The parts mounted on this PCB include all necessary parts for several destination.
For further information for respective destinations, be sure to check with the schematic diagram.

2. Viewpoint of PCB diagrams

onnector Capacitor



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Ε

TUNER AMP UNIT 150 **CORD ASSY** WIRED REMOTE INPUT CN661 140 CN991 **IP-BUS** CN101 130 0000 0 00 0000 R103 R101 R104 120 IC101 \$ 110 **GC** 105 C161 Ç913 •₩• US C165 •₩• CN1 100 -C163 p C 163 p C 163 p C 163 p C 163 p C 161 p 10151 Ç911 • **Ş** 000 01 SI C164 O GE R162 C166 O D 90 C571 C568 C533 Q Q Q G C572 어 (P C566 80 ,,,,,,,,, R902 1C561 000 70 C902 C901 R751 60 D751 C751 50 C857 C858 Q851 40 2860 2860 2852 D852 Ø⊏0 R857 30 ошо о R854 UR855 20 L851 GWG 10 Υ 0 20 30 40 50 60 70 10 Χ DEH-P690UB/XN/UC

A

SIDE A ANTENNA CN402 Y401 ZNR401 ONO CN271 **RCA OUT** AUX IN CN301 1020 \triangleright CN401 C370 C309 FM/AM TUNER UNIT C411 • N₊• REAR Γ ο ο OUTPUT USD

CN151

CN15 USB C409 FU302 10151 0000 0 00 5 0 0 0151 C431 • N₄• 10641 R643 R642 R643 R642 D251 0 0 R252 CN992 C211 C210 CN701 **C** CN701 CN871 000 **→** D Õ ➤ M3 **Ο** σ 2 18 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 CN801 17 9821 821 822 822 CN801 **→ B** CN1801 80 90 100 110 120 130 140 150 160 170 70

DEH-P690UB/XN/UC

FRONT

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С

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A

A TUNER AMP UNIT

0 0 0 R409 R408 0 R410 Q303 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 R360 9⊏€ C216

O O C217

O O O C217

O O O O R582 ⊗⊟0 C581 o |o 000000000 | R801 | GC | R801 | R801 | GC | R801 | GC | R801 | R802 | R803 | R803 | R803 | R804 | R806 | 170 140 130 120 160 150 110 100 90 DEH-P690UB/XN/UC

A

D

5

В

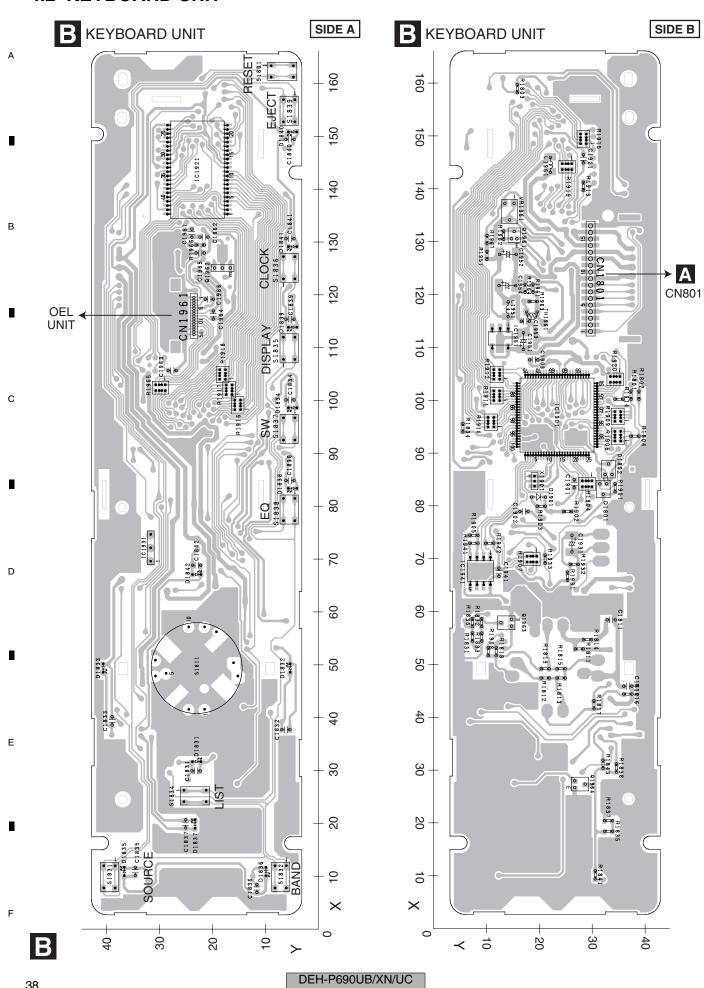
С

D

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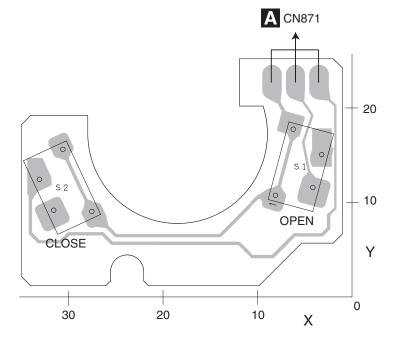
F

4.2 KEYBOARD UNIT



4.3 SWITCH UNIT

D SWITCH UNIT



F

D

DEH-P690UB/XN/UC

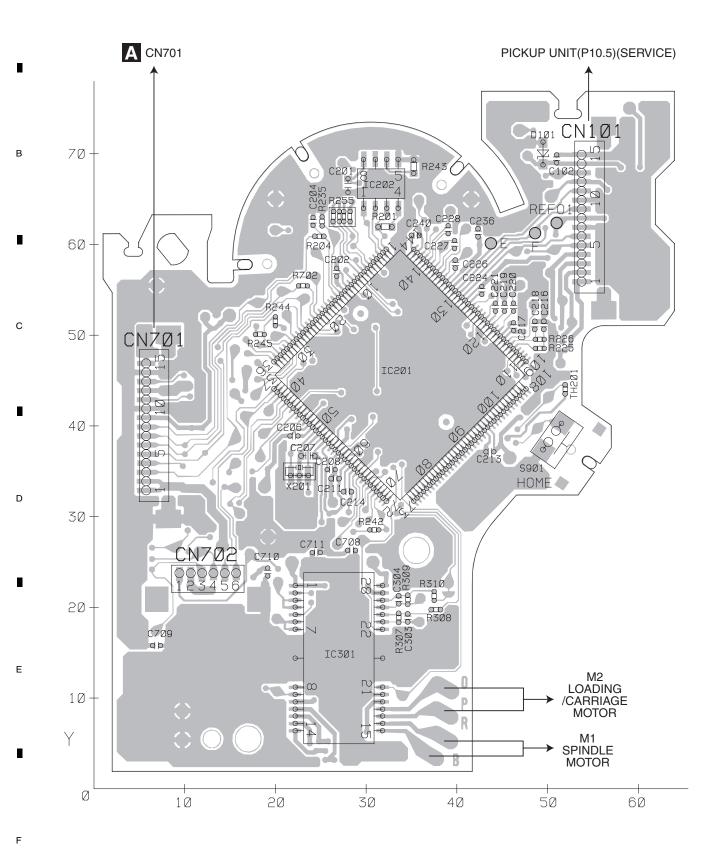
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4.4 CD CORE UNIT(S10.5COMP2)

C CD CORE UNIT(S10.5COMP2)

SIDE A



C

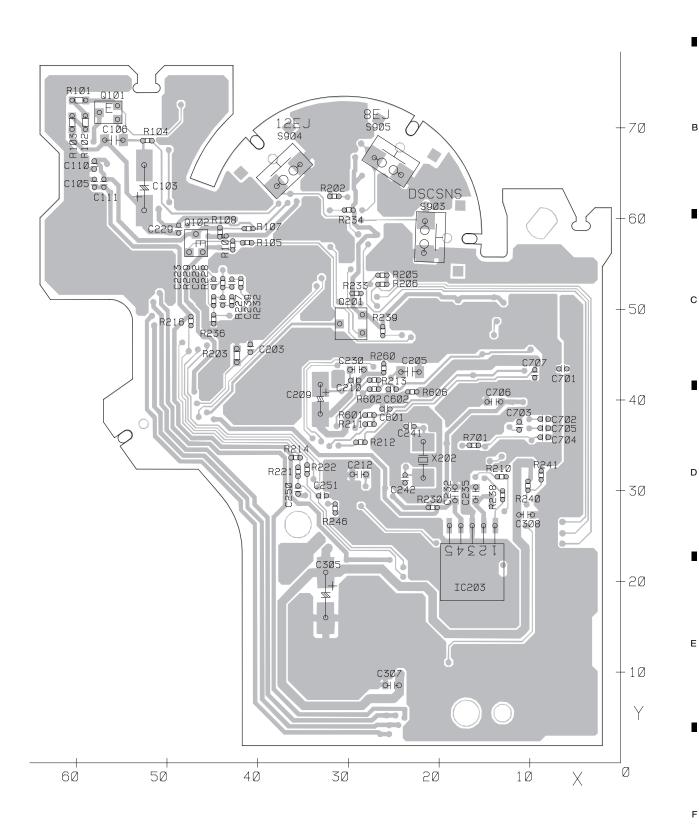
40

DEH-P690UB/XN/UC

C CD CORE UNIT(S10.5COMP2)

5

SIDE B



C

DEH-P690UB/XN/UC

5. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

 $RS1/\bigcirc S\bigcirc\bigcirc\bigcirc J, RS1/\bigcirc\bigcirc S\bigcirc\bigcirc\bigcirc J$

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

- *The* extstyle extstyTherefore, when replacing, be sure to use parts of identical designation.
- Meaning of the figures and others in the parentheses in the parts list.
- Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

IC 301 (A, 91, 111) IC NJM2068V

	Circ	uit Symbol and No.	Part No		Circ	cuit Symbol and No.	Part No.
		mber: CWN2152(U		_	IC 581	(A,94,76) IC	341S2025
-		•	,		IC 583	(A,98,57) L-MOS AND Ga	teTC7SET08FUS1
	Unit Nu	mber: CWN2154(E	S)		IC 601	(A,129,54) IC	PEG301A
	Unit Nar	me : Tuner Amp	Unit		IC 651	(A,139,36) IC	S-80835CNNB-B8U
		•			IC 781	(B,31,71) IC	NJM2885DL1-33
_	Unit Nu	mber:			IC 851	(A,25,27) IC	NJM2360M
С	Unit Nar	me : Keyboard U	Init		IC 871 IC 911	(A,148,17) IC (A,12,93) IC	BA6288FS NJM2388F84
		mber: CWX3514			10 911	(A, 12,93) 10	NJW2300F04
					IC 912	(A,44,52) IC	NJM2130F3
	Unit Nar	me : CD Core			Q 101	(A,29,126) Transistor	UMF23N
_	Unit/Q10	SCOMPS)			Q 241	(B,134,26) Transistor	2SD1767
	Unit(Sit	D.5COMP2)			Q 242 Q 291	(A,144,24) Transistor (A,137,89) Transistor	UMD2N UMD2N
	Unit Nu	mber: CWS1389			Q 291	(A, 137,09) Transision	OMDZN
	Unit Nar	me : Switch Unit			Q 301	(B,140,121) Transistor	IMH23
	Offic Ivai	ile . Switch offic			Q 302	(B,118,109) Transistor	IMH23
					Q 303	(B,140,126) Transistor	IMH23
D					Q 321	(A,118,109) Transistor	UMD2N
	A				Q 351	(A,114,109) Transistor	DTC124EUA
		mber: CWN2152(U	IC)		Q 352	(A,134,35) Transistor	UMD2N
		mber: CWN2154(E	•		Q 381	(B,32,102) Transistor	2SC4081
		•	,		Q 501	(B,61,75) Transistor	DTC114EUA
_	Unit Nar	me : Tuner Amp	Unit		Q 651	(A,134,31) Transistor	2SC4081
					Q 751	(A,12,56) Transistor	2SD2396
	MISCELL	<u>ANEOUS</u>			Q 752	(A,18,60) Transistor	UMD2N
	10.404	(4.40.445) 10	11A40044E	,	Q 821	(A,91,15) Transistor	2SD1767
	IC 101 IC 151	(A,12,115) IC (A,66,94) IC	HA12241FF R5523N001		Q 822	(A,98,15) Transistor	UMD2N
	IC 151	(A,44,96) IC	LT1766EFE		Q 831	(A,86,12) Transistor	DTC114EUA
Е	IC 171	(A,90,100) IC	NJM2885D		Q 841	(A,136,22) Transistor	UMF23N
	IC 181	(A,87,94) IC	NJM2872BI		0.051	(A,21,43) Transistor	00D1760E5
					Q 851 Q 852	(A,21,34) Transistor (A,21,34) Transistor	2SD1760F5 UMD2N
	IC 201	(A,121,84) IC	PML016B		Q 871	(A,61,13) Transistor	2SD1760F5
	IC 271	(A,116,124) IC	NJM4558M		Q 872	(A,49,6) Transistor	UMD2N
	IC 291	(A,141,88) IC	TC4066BF	Γ	Q 901	(A,12,69) Transistor	2SD2396
	IC 351	(A,90,135) IC	PAL007C			, , ,	
	IC 401	(A,155,94) IC	NJM062M		Q 902	(A,12,77) Transistor	UMD2N
	IC 431	(B,156,84) IC	NJM2885D	1 22	Q 921	(A,67,108) Transistor	UMX1N
	IC 431	(A,68,72) USB Media Control IC			Q 931	(A,78,117) Transistor	DTC114EUA
	IC 541	(A,76,41) IC	PEH084A	CLAAG	Q 951	(B,99,109) Transistor	2SA1576A
	IC 551	(A,60,41) SD-RAM(64M)	HY57V6416	S20ETP-H	D 151	(B,74,98) Diode	MALS068X
F	IC 561	(A,52,77) IC	AK4388VT	·	D 150	(P.74.06) Diada	MALCOGOV
		•			D 152 D 161	(B,74,96) Diode (A,50,96) Diode	MALS068X 1SS355
	IC 562	(A,42,83) IC	NJM2872BI	- 05	D 161 D 162	(A,50,96) Diode (A,50,102) Diode	RB160L-40
	IC 563	(A,42,73) IC	NJM4558M	D	D 162	(A,46,107) Diode	1SR154-400
				DELL BOOK		(1,570,107) Diode	1311104 400
	42			DEH-P690	OD/XIV/OC		

Circ	cuit Symbol and No.	Part No.	Circ	cuit Symbol and No.	Part No.	
D 241	(A,142,28) Diode	HZS12L(B1)	L 951	(A,84,119) Inductor	CTF1617	
D 261	(B,112,73) Diode Network	DA204U	X 502	(A,83,77) Crystal 12.000 MH	lz CSS1723	
D 271	(B,120,134) Diode	MALS068X	X 581	(A,94,86) Crystal 32.768 kHz		Α
D 272	(B,112,134) Diode	MALS068X	X 601	(A,115,54) Crystal Resonato		
D 321	(A,111,116) Diode	1SS133	⚠FU301	(A,122,127) Fuse 3 A	CEK1286	
D 381	(B,27,100) Diode	HZU8R2(B2)	∴ FU302	(A,109,99) Fuse 3 A	CEK1286	
D 382	(B,112,111) Diode	DAN202U	BZ601	(A,148,68) Buzzer	CPV1062	
D 431	(A,154,85) Diode	1SR154-400	52001	(71,110,00) Buzzoi	01 11002	_
D 432	(A,154,81) Diode	1SR154-400	RESISTO	RS		
D 433	(A,151,76) Diode	1SR154-400	ILDIOIO	110		
D 661	(B,26,128) Diode(UC)	DAN202U	D 101	(4 10 101)	DC1/16C600 I	
D 001	(B,20,120) Blode(00)	D/1142020	R 101	(A,12,121)	RS1/16S620J	
D 662	(B,26,132) Diode(UC)	DAP202U	R 103	(A,9,121)	RS1/16S101J	
D 751	(A,23,58) Diode	HZS7L(C3)	R 104	(A,15,121)	RS1/16S101J	
D 801	(B,103,16) Diode	MALS068X	R 105	(A,11,110)	RS1/16S102J	В
D 802	(B,103,14) Diode	MALS068X	R 106	(A,27,125)	RS1/16S222J	_
D 803	(B,109,12) Diode	MALS068X	D 407	(4.00.400)	D04/4000001	
D 803	(B, 109, 12) Diode	MALSOOA	R 107	(A,29,123)	RS1/16S332J	
D 804	(P.103.13) Diodo	MALS068X	R 108	(A,31,123)	RS1/16S562J	
D 804	(B,103,12) Diode		R 109	(B,27,120)	RS1/16S181J	
	(B,125,16) Diode	MALS068X	R 110	(B,24,123)	RS1/16S181J	
D 806	(B,125,14) Diode	MALS068X	R 111	(B,30,119)	RS1/16S223J	
D 821	(A,95,15) Diode	HZU10(B1)				
D 831	(A,89,9) LED	CL-197HB1-D(CDE)	R 112	(B,26,123)	RS1/16S223J	
	(5.55.55) 51.1		R 113	(B,32,119)	RS1/16S102J	
D 851	(B,29,29) Diode	RB411D	R 114	(B,28,123)	RS1/16S102J	
D 852	(A,18,27) Diode	HZS11L(A1)	R 151	(A,80,97)	RS1/16S0R0J	
D 871	(A,150,26) Diode	1SS133	R 152	(A,72,96)	RS1/16S0R0J	_
D 872	(A,150,23) Diode	1SS133				С
D 873	(A,53,7) Diode	HZS7L(A3)	R 155	(A,77,95)	RS1/16S153J	
			R 156	(A,74,95)	RS1/16S153J	
D 901	(A,22,70) Diode	HZS6L(B1)	R 157	(B,111,66)	RS1/16S103J	
D 902	(A,27,113) Diode	MPG06G-6415G50	R 161	(A,50,94)	RS1/16S0R0J	
D 921	(A,42,128) Diode	HZS7L(C3)	R 163	(A,43,90)	RS1/16S332J	
D 922	(A,60,116) Diode	HZU6R8(B2)		(, =,==,		
D 931	(A,66,115) Diode	1SR154-400	R 201	(A,116,73)	RAB4C102J	_
			R 202	(A,112,74)	RS1/16S101J	
D 941	(A,104,124) Diode	MPG06G-6415G50	R 203	(A,113,74)	RS1/16S101J	
D 942	(A,107,125) Diode	MPG06G-6415G50	R 204	(A,129,93)	RS1/16S0R0J	
D 951	(B,78,113) Diode	DAN202U	R 205	(A,129,92)	RS1/16S0R0J	
D 991	(A,35,121) Diode	MPG06G-6415G50	11 200	(A, 120,02)	1101/10001100	
D 992	(A,42,131) Diode	MPG06G-6415G50	R 241	(A,142,22)	RS1/16S182J	D
	(, , , , , , , , , , , , , , , , , , ,		R 271	(B,121,127)	RS1/16S473J	
ZNR401	(A,159,142) Surge Protect	or IMSA-6801-01Y901	R 272	(B,116,127)	RS1/16S473J	
L 101	(A,8,111) Inductor	LCTC2R2K1608	R 273	(B,119,122)	RS1/16S223J	
L 151	(A,75,96) Inductor	CTF1713	R 274	(B,113,122) (B,113,122)	RS1/16S223J	
L 162	(A,57,98) Inductor	CTH1255	Π 2/4	(B, 113, 122)	NO 1/1002200	
L 201	(A,121,74) Inductor	LCTAW2R2J2520	R 275	(P 102 100)	RS1/16S223J	•
2 201	(71,121,74) madetor	201711202020		(B,123,122)		
L 401	(B,170,145) Inductor	LCTAW220J2520	R 276	(B,117,122)	RS1/16S223J	
L 402	(A,159,108) Inductor	LCTAW1R0J3225	R 277	(B,120,125)	RS1/16S223J	
L 403	(B,159,100) Inductor	LCTAW1R0J3225	R 278	(B,115,125)	RS1/16S223J	
L 404	(A,151,100) Inductor	LCTC1R0K1608	R 279	(A,123,123)	RS1/16S223J	
L 501	(A,80,94) Inductor	CTF1389	D 000	(4.440.400)	D04/4000001	
L 301	(A,60,94) Inductor	C1F1309	R 280	(A,110,123)	RS1/16S223J	Е
1 500	(A 00 00) Industry	CTE1200	R 291	(A,139,94)	RS1/16S103J	
L 502	(A,80,93) Inductor	CTF1389	R 292	(A,135,89)	RS1/16S472J	
L 503	(A,70,84) Inductor	LCTC2R2K1608	R 301	(B,130,124)	RS1/16S390J	
L 504	(A,78,84) Inductor	CTF1389	R 302	(B,132,124)	RS1/16S390J	
L 506	(A,78,71) Inductor	CTF1384				
L 541	(A,79,29) Inductor	CTF1389	R 303	(B,129,136)	RS1/16S223J	_
:	(4.07.00)	OTE4000	R 304	(B,130,136)	RS1/16S223J	
L 551	(A,67,28) Inductor	CTF1389	R 305	(B,114,108)	RS1/16S390J	
L 561	(A,54,71) Inductor	CTF1379	R 306	(B,109,104)	RS1/16S390J	
L 581	(A,100,78) Chip Coil	LCTAW100J2520	R 307	(B,103,110)	RS1/16S223J	
L 583	(A,95,58) Inductor	CTF1379				
L 603	(A,97,54) Ferri-Inductor	LAU470K	R 308	(B,103,105)	RS1/16S223J	
_			R 309	(A,140,125)	RS1/16S390J	F
L 841	(A,131,24) Chip Coil	LCTAW100J2520	R 310	(A,150,127)	RS1/16S390J	•
L 851	(A,47,17) Chip Coil	LCTAW4R7J2520	R 311	(B,142,136)	RS1/16S223J	
L 852	(A,31,18) Inductor	CTF1660	R 312	(B,144,136)	RS1/16S223J	
L 871	(A,142,17) Ferri-Inductor	LAU4R7K		·		
		DEH-	P690UB/XN/UC			12

DEH-P690UB/XN/UC

	<u>Cir</u>	cuit Symbol and No.	Part No.	<u>Ci</u>	rcuit Symbol and No.	Part No.
				R 539	(A,78,79)	RS1/16S225J
	R 321	(A,120,109)	RS1/16S102J		, , ,	
	R 351	(A,90,118)	RS1/16S182J	R 541	(B,79,54)	RS1/16S0R0J
Α	R 352	(A,88,118)	RS1/16S182J	R 542	(A,62,83)	RS1/16S101J
	R 353	(A,93,118)	RS1/16S182J	R 543	(A,63,83)	RS1/16S101J
	R 354	(A,95,118)	RS1/16S182J	R 544	(B,59,68)	RS1/16S101J
	D 055	(D 00 110)	D04/4000701	R 550	(A,56,69)	RS1/16S472J
	R 355 R 356	(B,89,113) (B,87,113)	RS1/16S272J RS1/16S272J	R 551	(B,60,83)	RS1/16S223J
_	R 357	(B,93,113)	RS1/16S272J	R 552	(B,57,71)	RS1/16S223J
	R 358	(B,97,113)	RS1/16S272J	R 553	(B,57,74)	RS1/16S223J
	R 359	(B,147,121)	RS1/16S472J	R 554	(B,61,71)	RS1/16S473J
		,		R 555	(A,52,46)	RS1/16S222J
	R 360	(B,142,116)	RS1/16S472J	R 556	(A,52,43)	RS1/16S222J
	R 362	(A,111,108)	RS1/16S103J	R 561	(A,50,62)	RS1/16S473J
	R 363	(B,103,118)	RS1/16S103J			
В	R 364	(B,102,118)	RS1/16S331J	R 562	(A,49,62)	RS1/16S473J
	R 365	(B,99,124)	RS1/16S101J	R 563	(A,43,66)	RS1/16S103J
				R 564	(B,42,72)	RS1/16S103J
	R 366	(A,100,122)	RS1/16S103J	R 565	(A,41,67)	RS1/16S103J
	R 381	(B,28,103)	RS1/16S473J	R 566	(B,44,76)	RS1/16S103J
	R 382	(A,135,80)	RS1/16S473J			
	R 383	(B,32,100)	RS1/16S104J	R 567	(A,57,74)	RS1/16S101J
_	R 384	(A,111,110)	RS1/16S473J	R 568	(B,42,68)	RS1/16S822J
				R 569	(B,48,64)	RS1/16S822J
	R 403	(B,156,91)	RS1/16S104J	R 582	(B,97,82)	RS1/16S103J
	R 404	(B,154,96)	RS1/16S104J	R 583	(A,88,76)	RS1/16S103J
	R 405	(B,166,114)	RS1/16S681J	D 504	(4.00.70)	D04/4004000E
С	R 407	(B,165,119)	RS1/16S681J	R 584	(A,88,73)	RS1/16S1003F
C	R 408	(B,165,128)	RS1/16S681J	R 585	(A,80,86)	RS1/16S332J
	D 400	(P. 100 100)	D04/400004 I	R 586	(B,54,60)	RS1/16S332J
	R 409 R 410	(B,163,128) (B,161,129)	RS1/16S681J RS1/16S681J	R 587 R 588	(A,83,86) (B,52,60)	RS1/16S182J RS1/16S182J
	R 501	(B,63,81)	RS1/16S471J	n 300	(6,52,00)	NO 1/100 1020
	R 502	(A,73,84)	RS1/16S0R0J	R 590	(A,100,59)	RS1/16S101J
	R 504	(B,54,64)	RS1/16S101J	R 591	(A, 100,33) (A,92,82)	RS1/16S104J
	11 304	(0,54,64)	1101/1001010	R 592	(A,91,82)	RS1/16S104J
	R 505	(A,56,64)	RAB4CQ101J	R 593	(A,89,82)	RS1/16S104J
	R 507	(A,56,84)	RS1/16S101J	R 594	(B,97,57)	RS1/16S332J
	R 508	(A,57,84)	RS1/16S101J		(2,0.,0.)	
	R 510	(A,55,59)	RAB4CQ101J	R 595	(B,98,58)	RS1/16S182J
	R 511	(A,60,55)	RS1/16S101J	R 596	(A,88,79)	RS1/16S104J
D		, , ,		R 597	(A,97,82)	RS1/16S0R0J
	R 512	(B,57,76)	RS1/16S471J	R 600	(A,96,85)	RS1/16S0R0J
	R 513	(B,59,78)	RS1/16S471J	R 601	(B,112,59)	RS1/16S104J
	R 514	(A,61,56)	RS1/16S101J			
	R 515	(B,63,79)	RS1/16S471J	R 602	(B,118,58)	RS1/16S0R0J
	R 516	(A,66,85)	RS1/16S390J	R 603	(B,136,63)	RS1/16S104J
				R 604	(B,127,50)	RS1/16S104J
	R 517	(A,66,58)	RAB4CQ101J	R 605	(B,96,62)	RS1/16S472J
	R 518	(A,67,88)	RS1/16S390J	R 606	(B,118,41)	RS1/16S472J
	R 519	(A,68,56)	RAB4CQ101J			
	R 520	(B,68,85)	RS1/16S104J	R 607	(B,130,62)	RS1/16S104J
	R 522	(A,71,58)	RAB4CQ101J	R 608	(B,134,63) (ES)	RS1/16S0R0J
Е	D 500	(A 74 5E)	DQ1/16Q104 I	R 609 R 610	(B,128,62) (UC)	RS1/16S0R0J RS1/16S102J
	R 523 R 524	(A,74,55) (A,77,59)	RS1/16S101J RAB4CQ101J	R 610 R 612	(B,105,65) (B,138,48)	RS1/16S102J RS1/16S681J
			RAB4CQ101J	R 613		RS1/16S104J
	R 525 R 526	(A,80,59) (A,78,82)	RS1/16S472J	רוט ח	(A,141,41)	NS 1/10S 104J
	R 527	(A,85,70)	RS1/16S101J	R 615	(B,121,59)	RS1/16S104J
	11 327	(A,03,70)	1131/1031010	R 616	(A,139,41)	RS1/16S104J
	R 528	(A,81,70)	RS1/16S473J	R 617	(B,118,43)	RS1/16S222J
_	R 529	(A,82,70)	RS1/16S101J	R 618	(B,100,62)	RS1/16S104J
	R 530	(A,84,70)	RS1/16S471J	R 619	(B,98,62)	RS1/16S104J
	R 531	(A,84,66)	RS1/16S101J		· //-/	
	R 532	(A,82,67)	RS1/16S101J	R 620	(A,144,45)	RS1/16S102J
	R 533	(A,80,66)	RS1/16S101J	R 621	(B,147,56)	RS1/16S104J
_	-	· · · · /	-	R 622	(B,132,43)	RS1/16S104J
F	R 535	(A,78,75)	RS1/16S102J	R 623	(B,118,39)	RS1/16S472J
	R 536	(A,57,55)	RAB4CQ101J	R 624	(A,142,57)	RS1/16S472J
	R 537	(A,81,63)	RAB4CQ101J		•	
	R 538	(A,57,73)	RS1/16S101J	R 625	(B,139,77)	RS1/16S103J
	4.4		DFH-I	P690UB/XN/UC		
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			_		-	•

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Circ	cuit Symbol and No.	Part No.		Circ	uit Symbol and N	No. Pa	art No.	
R 626	(B,136,43)	RS1/16S104J		R 923	(A,65,111)		/16S473J	
R 627	(B,94,60)	RS1/16S104J		R 924	(A,66,111)		/16S223J	
R 628	(A,141,39)	RS1/16S104J		R 925	(B,65,122)		/16S472J	
R 629	(B,140,53)	RS1/16S104J		R 931	(A,67,113)		/16S103J	Α
R 643	(A,138,73)	RS1/16S104J		R 951	(B,100,106)		/16S102J	
R 651	(A,115,23)	RS1/16S222J		R 952	(B,96,109)		/16S472J	
R 652	(A,136,35)	RS1/16S102J		R 953	(B,92,109)		/16S472J	
R 653 R 654	(A,132,28)	RS1/16S473J RS1/16S183J		R 954	(B,82,111)	HS1.	/16S153J	
n 004	(A,139,33)	NO 1/ 100 1000		CAPACITO	ABS.			
R 661	(B,30,132) (UC)	RS1/16S102J		CAPACITO	<u> </u>			
R 662	(B,29,127) (UC)	RS1/16S102J		C 101	(B,17,131)	CKS	RYB104K16	
R 701	(B,103,45)	RS1/16S104J		C 102	(A,15,119)		RYB102K50	
R 702	(B,110,37)	RS1/16S473J		C 103	(A,12,119)		RYB102K50	
R 703	(B,105,31)	RS1/16S682J		C 151	(A,69,95)		RYB104K16	
	,			C 152	(A,63,93)		RYB104K16	В
R 704	(B,110,35)	RS1/16S682J			(* ', , /			
R 705	(B,110,43)	RS1/16S221J		C 161	(A,37,103) 470 μF/1	6 V CCH	11331	
R 706	(B,110,39)	RS1/16S102J		C 162	(A,44,103)		YB225K16	
R 707	(B,110,33)	RS1/16S221J		C 163	(A,49,97)	CKS	RYB334K10	
R 708	(B,110,31)	RS1/16S221J		C 164	(A,42,90)	CKS	RYB472K50	
				C 165	(A,66,100)	CEH	IAZA101M6R3	Ī
R 709	(B,105,29)	RS1/16S221J						_
R 710	(B,103,43)	RS1/16S102J		C 166	(A,44,88)	CKS	RYB473K25	
R 711	(B,110,29)	RS1/16S104J		C 171	(B,93,90)	CKS	RYB103K50	
R 712	(B,110,41)	RS1/16S104J		C 172	(A,93,93)	CEA	L220M16	
R 751	(A,23,61)	RD1/4PU102J		C 173	(A,86,104)		RYB474K10	
D 004	(5.105.10)	D04/4000001		C 181	(A,84,95)	CKS	RYB104K16	С
R 801	(B,105,18)	RS1/16S222J						C
R 802	(B,109,14)	RS1/16S222J		C 182	(A,82,95)		YB106K6R3	
R 803 R 804	(B,113,14)	RS1/16S222J RS1/16S222J		C 183	(A,89,90)		RYB104K16	
R 805	(B,117,14) (B,121,14)	RS1/16S222J		C 202	(A,128,73)		L470M10	
H 000	(0,121,14)	NO 1/ 1002220		C 203	(B,128,75)		RYB104K16	
R 806	(B,117,12)	RS1/16S104J		C 205	(B,121,74)	CKS	RYB474K10	_
R 807	(B,122,34)	RS1/16S104J		C 207	(A 121 00)	CKC	VP106K10	
R 809	(B,124,35)	RS1/16S223J		C 207 C 208	(A,131,80) (B,103,85)		YB106K10 QYB225K10	
R 821	(A,101,17)	RS1/16S473J		C 208	(B,103,83) (B,107,82)		QYB225K10	
R 822	(A,101,18)	RS1/16S1R0J		C 209	(A,95,44)		QYB225K10	
	(,, , , , , , , , , , , , , , , , , ,			C 211	(A,91,44)		QYB225K10	
R 823	(A,94,12)	RS1/16S221J		0 211	(A, 51, 77)	ONO	Q I DZZSICIO	
R 824	(A,97,12)	RS1/16S221J		C 212	(A,133,82)	CKS	QYB225K10	D
R 831	(A,85,14)	RS1/16S181J		C 213	(A,133,84)		QYB225K10	
R 842	(A,134,21)	RS1/16S472J		C 214	(B,110,93)		QYB225K10	
R 843	(A,135,26)	RS1/16S472J		C 215	(B,105,92)	CKS	QYB225K10	
				C 216	(B,110,97)	CKS	QYB225K10	
R 844	(A,137,25)	RS1/16S103J						
R 851	(A,36,27)	RD1/4PU272J		C 217	(B,105,95)	CKS	QYB225K10	
R 852	(B,32,32)	RS1/16S101J		C 218	(A,130,85)	CKS	QYB475K10	
R 854	(A,21,23)	RS1/16S391J		C 219	(A,112,85)		QYB475K10	
R 855	(A,24,23)	RS1/16S1R0J		C 220	(A,132,87)		QYB475K10	
R 856	(A 22 36)	RS1/16S331J		C 221	(A,110,87)	CKS	QYB475K10	
R 856 R 857	(A,22,36) (A,21,31)	RS1/16S331J		0.000	/A 400 00°	<u> </u>	OVP 47514 : 5	
R 858	(A,21,31) (A,33,27)	RD1/4PU272J		C 222	(A,130,89)		QYB475K10	E
R 871	(A,50,10)	RS1/16S471J		C 223	(A,112,89)		QYB475K10	
R 872	(A,48,10)	RS1/16S471J		C 224	(A,116,92)		YB106K10	
11 072	(7,40,10)	1101/1004/10		C 241	(A,145,33)		L470M16	
R 873	(A,153,15)	RS1/16S103J		C 242	(B,145,31)	CKS	RYB104K16	
R 874	(A,153,18)	RS1/16S563J		C 243	(A,141,24)	CKS	RYB224K16	
R 875	(A,147,39)	RAB4C102J		C 255	(B,128,78)		RYB104K16	I
R 901	(A,17,71)	RS1/16S223J		C 261	(B,129,73) (B,109,73)		RCH470J50	
R 902	(A,18,78)	RS1/16S472J		C 271	(B,109,73) (B,125,123)		QYB225K10	
	,			C 272	(B,115,122)		QYB225K10	
R 911	(A,17,83)	RS1/16S102J		-	, , -,,	5.10		
R 912	(A,17,86)	RS1/16S473J		C 273	(B,121,122)	CKS	QYB225K10	
R 913	(B,41,61)	RS1/16S103J		C 274	(B,111,123)		QYB225K10	F
R 914	(B,40,68)	RS1/16S103J		C 275	(A,121,123)		RCH101J50	ī
R 921	(A,65,108)	RS1/16S103J		C 276	(A,111,123)		RCH101J50	
_		:		C 277	(A,117,120)		RYB105K10	
R 922	(A,68,111)	RS1/16S103J						
		[DEH-P690	UB/XN/UC]			15
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	Circ	uit Symbol and No.	Part No.		<u>Ci</u>	ircuit Symbol and No.	Part No.
	C 291	(A,137,94)	CKSRYB104K16	-	527	(B,57,80)	CCSRCH100D50
	C 301	(A,127,124)	CEAL100M25		528	(B,58,83)	CCSRCH100D50
Α	C 302	(A,134,124)	CEAL100M25		529	(B,72,68)	CKSRYB104K16
	C 305	(A,115,104)	CEVW100M10		530	(B,76,77)	CKSRYB104K16
	C 306	(A,122,104)	CEVW100M10	C	531	(A,70,26)	CKSYB106K6R3
	C 309	(A,146,124)	CEAL100M25	C	532	(B,41,55)	CKSRYB103K50
	C 310	(A,146,117)	CEAL100M25		533	(A,49,85)	CKSRYB102K50
	C 321	(A,116,114)	CEAL220M16	C	541	(A,82,29)	CKSRYB104K16
-	C 351	(B,90,122)	CKSQYB474K16		542	(A,76,29)	CKSRYB104K16
	C 352	(B,88,122)	CKSQYB474K16		544	(A,82,90)	CKSYB106K6R3
	C 353	(B,93,122)	CKSQYB474K16	C	551	(A,68,31)	CKSRYB104K16
	C 353	(B,95,122) (B,95,122)	CKSQYB474K16		552	(A,68,33)	CKSRYB104K16
	C 355	(B,90,126)	CKSRYB474K16		553	(A,68,37)	CKSRYB104K16
В	C 356	(B,88,126)	CKSRYB474K16		554	(A,68,41)	CKSRYB104K16
	C 357	(B,93,126)	CKSRYB474K16		555	(A,68,52)	CKSRYB104K16
				C	556	(A,52,33)	CKSRYB104K16
	C 358	(B,95,126)	CKSRYB474K16				
	C 364	(A,99,118)	CEHAR330M10		557	(A,52,38)	CKSRYB104K16
	C 365	(B,97,126)	CKSQYB225K10		559	(A,74,26)	CKSRYB102K50
	C 366	(B,100,127) (A,106,117)	CKSQYB225K10		561	(A,53,68)	CKSRYB104K16
	C 368	(A, 106, 117)	CEHAS100M35		564 566	(A,51,69) (A,43,80)	CKSYB106K6R3 CKSRYB103K50
	C 369	(B,69,130)	CKSRYB104K16		, 300	(7,43,00)	OKSITI B 103K30
	C 370	(A,69,123) 3 300 μF/16 V	CCH1486	C	567	(A,52,71)	CKSRYB103K50
	C 401	(B,161,92)	CKSRYB104K16		568	(A,45,85)	CKSRYB105K10
	C 402	(B,161,96)	CKSRYB104K16		569	(A,52,66)	CKSYB106K6R3
С	C 403	(B,164,105)	CKSYB475K10		570	(A,50,68)	CKSRYB104K16
				C	571	(A,43,85)	CKSRYB104K16
	C 406	(B,162,106)	CKSRYB103K50	_		(4.45.00)	01(00)(0404)(40
	C 407 C 408	(B,164,111) (B,164,140)	CKSRYB103K50 CKSRYB103K50		572 573	(A,45,82) (B,51,68)	CKSRYB104K16 CKSYB475K10
	C 408	(B, 164, 140) (A, 158, 104)	CEJQ470M10		573	(B,46,68)	CKSYB475K10
	C 410	(A,151,105)	CEAL470M6R3		575	(A,43,68)	CCSRCH151J50
-		(, - ,,			576	(B,46,76)	CCSRCH151J50
	C 411	(A,157,114)	CEJQ101M16				
	C 420	(A,151,94)	CKSRYB104K16		577	(A,39,69)	CCSRCH331J50
	C 431	(A,160,79)	CEJQ220M16		578	(B,42,76)	CCSRCH331J50
	C 432 C 433	(B,164,80) (B,164,85)	CKSRYB103K50 CKSYB475K10	-	579 581	(A,38,75) (B,97,80)	CKSRYB105K10 CKSRYB104K16
D	C 433	(0,104,63)	ON3104/3K10		582	(A,91,88)	CCSRCH5R0C50
	C 501	(B,71,85)	CKSRYB104K16		002	(7.1,0.0)	000110110110000
	C 502	(B,75,85)	CKSRYB104K16	C	583	(A,91,85)	CCSRCH5R0C50
	C 503	(A,71,88)	CSZSR100M16	C	585	(A,100,57)	CKSRYB104K16
	C 504	(A,76,89)	CSZSR100M16		602	(B,112,55)	CCSRCH220J50
	C 505	(A,55,67)	CKSRYB104K16		603	(B,112,52)	CCSRCH180J50
	C 506	(P.61.70)	CKSRYB104K16	C	604	(B,123,50)	CKSRYB104K16
	C 500	(B,61,72) (A,57,67)	CKSRYB104K16	(606	(A,141,54)	CKSRYB104K16
	C 508	(A,66,82)	CKSRYB104K16		607	(A,97,49)	CEAL4R7M35
	C 509	(B,63,83)	CCSRCH100D50		608	(B,102,48)	CKSRYB103K50
	C 510	(A,62,60)	CKSRYB104K16		609	(B,93,50)	CKSYB106K6R3
Е				C	651	(A,132,27)	CKSRYB104K16
_	C 511	(A,62,59)	CKSRYB104K16	_		/• /\	01/05//5/05//0
	C 512	(B,66,75)	CKSRYB104K16		652	(A,137,35)	CKSRYB105K10
	C 513 C 515	(B,69,80) (A,75,84)	CCSRCH331J50 CKSRYB102K50		701 751	(A,95,33)	CKSQYB475K6R3 CEHAR101M10
	C 516	(A,73,64) (A,74,58)	CKSRYB104K16		752	(A,21,52) (B,25,51)	CKSRYB102K50
	0 0.0	(7.,7.1,00)	OKONI BIO IKIO		753	(B,23,57)	CKSRYB473K25
	C 517	(A,74,82)	CKSYB475K10			· · · · /	
	C 518	(B,71,80)	CKSRYB122K50		781	(A,37,64)	CEJQ220M25
	C 519	(A,74,60)	CKSRYB104K16		782	(B,40,76)	CKSRYB103K50
	C 520	(A,76,84)	CKSRYB102K50		783	(B,38,76)	CKSRYB474K10
	C 521	(B,75,73)	CKSRYB104K16		821 831	(A,96,15)	CKSRYB473K25 CKSRYF104Z50
_	C 522	(A,80,67)	CKSRYB104K16	C	, 001	(A,89,11)	ORGITT 104250
F	C 523	(A,80,79)	CCSRCH5R0C50	C	841	(A,130,21)	CKSRYB473K25
	C 524	(A,80,75)	CCSRCH150J50		842	(A,132,21)	CCSRCH101J50
	C 525	(A,68,85)	CKSRYB103K50		851	(A,132,17) 4.7 μF	CCG1111
	C 526	(B,57,72)	CCSRCH100D50		852	(A,36,37)	CEJQ470M25
	46			OUB/XN/	UC		
	-	1 =	2			3	4

Circ	cuit Symbol and No.	Part No.	Circ	uit Symbol and No.	Part No.		
C 854	(B,36,32)	CKSRYB103K50	TH1961 X 1901	(B,117,19) Thermistor	CCX1037		
C 855	(A,30,28)	CCSRCH331J50	X 1901	(B,85,19) Ceramic Resonato	or 16.000 MHZ CSS 1616		
C 856	(B,37,44)	CKSRYB104K16	S 1801	(A,162,7) Push Switch	CSG1155		Α
C 857	(A,34,44)	CEJQ101M16	S 1811	(A,49,23) Switch	CSX1120		
C 858	(A,28,43)	CEJQ470M16	S 1831	(A,10,40) Push Switch	CSG1155		
C 859	(A,19,33)	CKSRYB104K16	S 1832	(A,10,7) Push Switch	CSG1155		
			S 1834	(A,25,23) Push Switch	CSG1155		
C 860	(A,27,35) 22 μF	CCG1183					
C 871	(B,150,28)	CCSRCH101J50	S 1835	(A,110,6) Push Switch	CSG1155	İ	
C 872	(B,149,31)	CKSRYB102K50	S 1836	(A,125,6) Push Switch	CSG1155	'	_
C 873	(B,150,21)	CCSRCH101J50	S 1837	(A,95,6) Push Switch	CSG1155		
C 874	(A,71,7)	CEAL101M10	S 1838	(A,79,6) Push Switch	CSG1155		
C 875	(A,66,5)	CKSRYB104K16	S 1839	(A,155,6) Push Switch	CSG1155		
C 876	(B,144,19)	CKSRYB105K10	RESISTO	DC			
C 877	(A,62,5)	CKSRYB103K50	<u>nesis i O</u>	<u>no</u>			В
C 878	(A,154,18)	CKSRYB103K50	R 1801	(B,101,37)	RS1/16S222J		
C 901	(A,21,66)	CEHAR220M16	R 1802	(B,101,37) (B,101,39)	RS1/16S222J		
	,		R 1803	(B,159,16)	RS1/16S333J		
C 902	(A,17,65)	CKSRYB104K16	R 1811	(B,53,28)	RS1/16S103J		
C 903	(B,16,72)	CKSRYB103K50	R 1812	(B,47,21)	RS1/16S333J		
C 904	(A,31,90) 1 500 μF/16 V	CCH1201				1	
C 911	(A,22,95)	CEJQ221M16	R 1813	(B,47,24)	RS1/16S103J	•	_
C 912	(A,17,89)	CKSRYB103K50	R 1814	(B,55,29)	RS1/16S102J		
0.010	(4.00.404)	05104041440	R 1815	(B,49,24)	RS1/16S332J		
C 913	(A,22,104)	CEJQ101M16	R 1816	(B,44,37)	RS1/16S102J		
C 914 C 915	(A,43,61) (A,44,55)	CEJQ100M50 CKSRYB105K10	R 1818	(B,52,12)	RS1/16S103J		
C 913	(B,64,124)	CKSRYB104K16	D 1010	(D. 40.04)	DC4/4000001	(С
C 931	(A,81,118)	CKSQYB105K16	R 1819 R 1831	(B,49,21) (B,55,7)	RS1/16S222J RS1/16S821J		
0 00.	(1,01,110)	0.100.12.100.110	R 1832	(B,58,9)	RS1/16S271J		
C 932	(B,64,126)	CKSRYB473K25	R 1833	(B,55,9)	RS1/16S0R0J		
C 941	(B,64,128)	CKSRYB473K25	R 1834	(B,95,6)	RS1/16S821J		
C 951	(B,82,113)	CKSRYB104K16		() = = , = ,			
			R 1835	(B,18,33)	RS1/16S271J	[
В			R 1836	(B,58,7)	RS1/16S821J		
			R 1837	(B,20,33)	RS1/16S0R0J		
Unit Nu			R 1838	(B,30,35)	RS1/16S821J		
Unit Na	me : Keyboard	Unit	R 1841	(B,10,31)	RS1/16S821J		
	_		D 1040	(D.01.00)	DC1/16C001 I		
MISCELL	<u>ANEOUS</u>		R 1843 R 1901	(B,31,32) (B,83,34)	RS1/16S821J RS1/16S103J	1	D
			R 1902	(B,79,25)	RS1/16S473J		
IC 1901	(B,97,23) IC	PEG312A8	R 1903	(B,80,20)	RS1/16S154J		
IC 1921	(A,144,23) IC(P690UB)	PD8174A	R 1904	(B,84,29)	RAB4CQ102J		
	IC(P6900UB,P7950UB)	PD8173A		, , ,			
IC 1931	(A,72,32) IC	GP1UX31RK	R 1905	(B,74,8)	RS1/16S104J		
IC 1951	(B,112,13) IC	S-818A33AUC-BGN	R 1906	(B,93,35)	RAB4CQ473J		
Q 1961	(B,131,15) Transistor	2SC4617	R 1907	(B,70,19)	RAB4CQ102J		
Q 1962	(A,127,18) Transistor	2SD1664	R 1908	(B,52,10)	RS1/16S221J		
Q 1963	(B,58,14) Transistor	DTC123JU	R 1909	(B,97,35)	RAB4CQ473J		
Q 1964	(B,27,28) Transistor	DTC123JU	D 1010	(D.06.11)	DAD4001011		
D 1831	(A,32,23) LED	CL-197HB1-D(CDE)	R 1910 R 1911	(B,96,11) (B,101,12)	RAB4CQ101J RAB4CQ101J		
D 1832	(A,49,5) LED	CL-197HB1-D(CDE)	R 1911	(B,105,12)	RAB4CQ101J	I	E
			R 1913	(B,140,28)	RS1/16S101J		
D 1833	(A,49,41) LED	CL-197HB1-D(CDE)	R 1914	(B,100,35)	RS1/16S101J		
D 1834	(A,99,5) LED	CL-197HB1-D(CDE)		(=,:::,::)			
D 1835	(A,11,37) LED	CL-197HB1-D(CDE)	R 1915	(B,149,28)	RAB4CQ101J		
D 1836	(A,11,10) LED	CL-197HB1-D(CDE)	R 1916	(A,99,15)	RAB4CQ101J	,	_
D 1837	(A,20,23) LED	CL-197HB1-D(CDE)	R 1917	(A,102,17)	RAB4CQ101J		
D 1020	(A 92 5) LED	CL 107HR1 D/CDE)	R 1918	(A,105,18)	RAB4CQ101J		
D 1838 D 1839	(A,83,5) LED (A,114,5) LED	CL-197HB1-D(CDE) CL-197HB1-D(CDE)	R 1919	(B,144,25)	RAB4CQ101J		
D 1840	(A,114,5) LED (A,151,5) LED	CL-197HB1-D(CDE)	D 4000	(D 404.04)	DAD400464 !		
D 1841	(A,129,5) LED	CL-197HB1-D(CDE)	R 1920	(B,104,34)	RAB4CQ101J		
D 1842	(A,67,23) LED	CL-197HB1-D(CDE)	R 1931	(B,67,25)	RS1/16S101J RS1/16S103J		_
	· · · · /	(- /	R 1932 R 1933	(B,69,27) (B,70,21)	RS1/16S103J RS1/16S2R2J		F
D 1901	(B,82,20) Diode	1SS355	R 1951	(B,70,21) (B,127,10)	RS1/16S222J		
L 1951	(B,117,14) Inductor	CTF1617	11 1001	(=, :=: , : •)			
L 1961	(B,145,22) Inductor	CTF1617					
		DFH	I-P690UB/XN/UC			47	
	5	6		7	8	47	

-		1 -	2	_	3	4
	Circ	cuit Symbol and No.	Part No.		ircuit Symbol and No.	Part No.
	R 1961	(B,121,19)	RS1/16S333J	R 203	(B,42,45)	RS1/16S473J
	R 1962	(B,131,13)	RS1/16S183J	R 204	(A,25,61)	RS1/16SS221J
	R 1963	(B,119,19)	RS1/16S563J			
Α	R 1964	(B,121,17)	RS1/16S392J	R 206	(B,26,53)	RS1/16SS104J
	R 1965	(A,102,30)	RAB4CQ101J	R 210	(B,13,32)	RS1/16SS102J
				R 214	(B,36,34)	RS1/16SS472J
	R 1966	(A,129,22)	RS1/16S0R0J	R 216	(B,47,49)	RS1/16SS472J
	R 1967	(B,130,10)	RS1/16S5101D	R 221	(B,36,32)	RS1/16SS103J
	CAPACIT	ORS		R 222	(B,35,32)	RS1/16SS103J
-				R 225	(A,49,49)	RS1/16SS103J
	C 1831	(A,30,23)	CKSRYF104Z50	R 226	(A,49,50)	RS1/16SS393J
	C 1832	(A,38,6)	CKSRYF104Z50	R 227	(B,45,51)	RS1/16SS562J
	C 1833	(A,39,39)	CKSRYF104Z50	R 228	(B,42,53)	RS1/16SS122J
	C 1834	(A,100,5)	CKSRYF104Z50			
	C 1835	(A,11,35)	CKSRYF104Z50	R 229	(B,44,53)	RS1/16SS472J
В		, , ,		R 230	(B,21,28)	RS1/16SS0R0J
	C 1836	(A,8,12)	CKSRYF104Z50	R 232	(B,43,51)	RS1/16SS122J
	C 1837	(A,20,25)	CKSRYF104Z50	R 233	(B,29,52)	RS1/16SS103J
	C 1838	(A,85,5)	CKSRYF104Z50	R 234	(B,30,61)	RS1/16SS473J
	C 1839	(A,115,5)	CKSRYF104Z50			
	C 1840	(A,149,5)	CKSRYF104Z50	R 235	(A,25,63)	RS1/16SS473J
		, -,-,		R 239	(B,26,48)	RS1/16SS473J
	C 1841	(A,131,5)	CKSRYF104Z50	R 240	(B,10,31)	RS1/16SS473J
	C 1842	(A,69,23)	CKSRYF104Z50	R 241	(B,9,32)	RS1/16SS103J
	C 1901	(B,84,27)	CKSRYB103K50		•	
	C 1902	(B,79,17)	CKSRYF104Z50	R 244	(A,20,52)	RS1/16SS473J
	C 1903	(B,108,19)	CKSRYB103K50	R 255	(A,27,63)	RAB4CQ104J
	0 .000	(2,130,13)	0.10.1.2.100.100	R 307	(A,34,19)	RS1/16SS183J
С	C 1921	(B,146,28)	CKSRYB103K50	R 308	(A,38,20)	RS1/16SS183J
	C 1931	(B,73,26)	CSZSR100M16	R 309	(A,35,21)	RS1/16SS183J
	C 1951	(B,111,17)	CSZSR4R7M16		,	
	C 1952	(B,128,14)	CSZSR4R7M16	R 310	(A,38,21)	RS1/16SS183J
	C 1953	(B,115,17)	CKSRYB103K50	R 601	(B,28,38)	RS1/16SS0R0J
	0 1000	(2,110,17)	Cherri Brookes	R 602	(B,27,41)	RS1/16SS0R0J
	C 1954	(B,122,14)	CSZSR4R7M10	R 606	(B,23,41)	RS1/16SS0R0J
-	C 1963	(A,106,28)	CKSRYB104K25	R 701	(B,16,35)	RS1/16SS221J
	C 1964	(A,116,20)	CKSRYB104K25		,	
	C 1965	(A,128,22)	CKSRYB104K25	R 702	(A,23,55)	RS1/16SS221J
	C 1966	(A,119,21)	CKSRYB104K25			
	0 .000	(* 1, 1 1 0, 2 1)	0.10.1.2.0.1.20	CAPAC	CITORS	
D	C					
U				C 106	(B,56,69)	CKSQYB475K6R3
	Unit Nu	mber: CWX3514		C 202	(A,27,57)	CKSSYB104K10
	Unit Na	me : CD Core		C 204	(A,24,63)	CKSSYB103K16
	Omit iva	ille . CD Cole		C 205	(B,23,43)	CKSQYB475K6R3
	Unit(S1)	0.5COMP2)				
	• • • • • • • • • • • • • • • • • • • •	-, -, -, -, -, -, -, -, -, -, -, -, -, -		C 206	(A,22,39)	CKSSYB104K10
	MICCELI	ANEOUS		C 207	(A,24,37)	CKSRYB104K16
	MISCELL	ANEOUS		C 209	(B,33,40)	CEVW220M6R3
	10.004	(A 04 46) 10	DE55474	C 210	(B,29,42)	CKSSYB104K10
	IC 201	(A,34,46) IC	PE5547A	C 211	(A,27,34)	CKSSYB104K10
	IC 301	(A,27,14) IC	BA5839FP			
	Q 101	(B,56,72) Transistor	2SA1577	C 212	(B,29,32)	CKSRYB104K16
Е	Q 102	(B,47,57) Transistor	2SB1689	C 213	(A,44,37)	CKSSYB104K10
_	V 004	(A 00 0E) O	46 004 MH - 0004000	C 214	(A,28,33)	CKSSYB104K10
	X 201	(A,23,35) Ceramic Resonator		C 216	(A,50,51)	CKSSYB332K50
	S 901	(A,53,37) Switch(HOME)	CSN1067	C 217	(A,46,51)	CKSSYB104K10
	S 903	(B,19,58) Switch(DSCSNS				
	S 904 S 905	(B,38,67) Switch(12EJ)	CSN1068	C 218	(A,49,51)	CKSSYB473K10
_	S 905	(B,24,68) Switch(8EJ)	CSN1068	C 219	(A,45,53)	CKSSYB104K10
	DECICE	.DO		C 220	(A,46,53)	CKSSYB182K50
	<u>RESISTO</u>	<u>rks</u>		C 221	(A,44,53)	CKSSYB104K10
				C 222	(B,43,53)	CCSSCH560J50
	R 101	(B,60,73)	RS1/10SR2R4J			
	R 102	(B,59,71)	RS1/10SR2R4J	C 223	(B,45,53)	CCSSCH4R0C50
	R 103	(B,60,71)	RS1/10SR2R7J	C 224	(A,43,55)	CKSSYB104K10
F	R 104	(B,52,69)	RS1/16SS222J	C 226	(A,40,58)	CCSSCH680J50
	R 105	(B,41,57)	RS1/16SS102J	C 227	(A,40,60)	CCSSCH470J50
				C 228	(A,39,62)	CKSSYB103K16
	R 107	(B,41,59)	RS1/16SS105J		•	
	R 202	(B,32,62)	RS1/16SS473J			
	40		DEH-P690)UB/XN/UC		
_	48	1 =	2		3	4
			=		•	

Cir	cuit Symbol and No.	Part No.
C 229	(B,49,59)	CKSSYB104K10
C 236	(A,42,61)	CKSSYB104K10
C 239	(B,44,51)	CCSSCH220J50
C 240	(A,35,61)	CKSSYB104K10
C 250	(B,36,30)	CKSSYB102K50
C 251	(B,33,29)	CKSSYB102K50
C 303	(A,35,19)	CKSSYB472K25
C 304	(A,34,21)	CKSSYB223K16
C 307	(B,25,9)	CKSRYB104K16
C 308	(B,10,27)	CKSRYB105K10
C 703	(B,11,37)	CCSSCH101J50
C 704	(B,8,36)	CKSSYB102K50
C 711	(A,25,26)	CKSSYB104K10



Unit Number: CWS1389 Unit Name : Switch Unit

S 1 (B,7,14) Switch(OPEN) CSN1051 S 2 (B,29,12) Spring Switch(CLOSE) CSN1052

Miscellaneous Parts List

Pickup Unit(P10.5)(Service) CXX1942 Motor Unit(SPINDLE) CXC7134

M 1 Motor Unit(SPINDLE) CXC7134
M 2 Motor Unit(LOADING/CARRIAGE) CXC4026

M 3 Motor Unit(FLAP) XXA7400

DEH-P690UB/XN/UC

Ω

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6. ADJUSTMENT 6.1 CD ADJUSTMENT

- 1) Cautions on adjustments
- In this product the single voltage (3.3 V) is used for the regulator. The reference voltage is the REFO1 (1.65 V) instead of the GND.
- If you should mistakenly short the REFO1 with the GND during adjustment, accurate voltage will not be obtained, and the servo's misoperation will apply excessive shock to the pickup. To avoid such problems:
- a. Do not mix up the REFO1 with the GND when connecting the (-) probe of measuring instruments. Especially on an oscilloscope, avoid connecting the (-) probe for CH1 to the GND.
- b. In many cases, measuring instruments have the same potential as that for the (-) probe. Be sure to set the measuring instruments to the floating state. c. If you have mistakenly connected the REFO1 to the GND, turn off the regulator or the power immediately.
- Before mounting and removing filters or leads for adjustment, be sure to turn off the regulator.
- For stable circuit operation, keep the mechanism operating for about one minute or more after the regulator is turned on.
- In the test mode, any software protections will not work. Avoid applying any mechanical or electrical shock to the mechanism during adjustment.
- The RFI and RFO signals with a wide frequency range are easy to oscillate. When observing the signals, insert a resistor of 1k ohms in series.
- The load and eject operation is not guarantied with the mechanism upside down. If the mechanism is blocked due to mistaken eject operation, reset the product or turn off and on the ACC to restore it.

2) Test mode

This mode is used to adjust the CD mechanism module.

• To enter the test mode.

While pressing the [EQ] and [DISP] keys at the same time, reset.

• To exit from the test mode.

Turn off the ACC and back up.

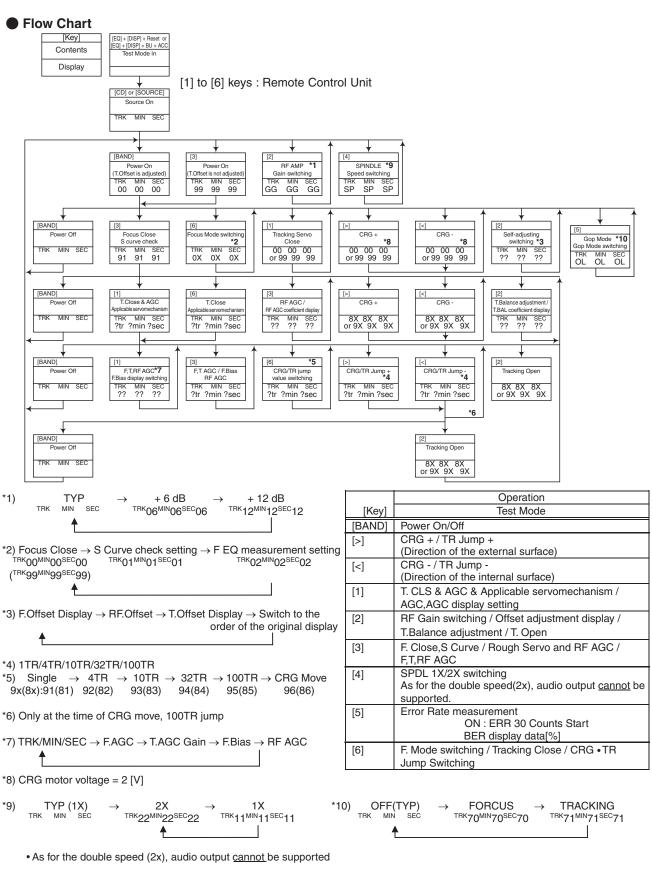
Notes:

a. During ejection, do not press any other keys than the EJECT key until the loaded disc is ejected.

b. If you have pressed the $[\rightarrow]$ key or $[\leftarrow]$ key during focus search, turn off the power immediately to protect the actuator from damage caused by the lens stuck.

- c. For the TR jump modes except 100TR, the track jump operation will continue even if the key is released.
- d. For the CRG move and 100TR jump modes, the tracking loop will be closed at the same time when the key is released.
- e. When the power is turned off and on, the jump mode is reset to the single TR (91), the RF amp gain is set to 0 dB, and the auto-adjustment values are reset to the default settings.

D



- *) After the [EJECT] key is pressed keys other than the [EJECT] key should not be pressed, until disc ejection is complete.
- When the key [2] or [3] is pressed during the Focus Search, the power supply should be immediately turned off (otherwise the lens sticks to Wall, causing the actuator to be damaged).
- In the case of TR jump other than to 100TR, the function shall continue to be processed even if the TR jump key is released. As for the CRG Move and 100TR Jump, the mechanism shall be set to the Tracking Close mode when the key is released.
- When the power is turned on/off the jump mode is reset to the Single TR (91) while the gain of the RFAMP is reset to 0 dB. At the same time all the self-adjusting values shall return to the default setting.

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6.2 CHECKING THE GRATING AFTER CHANGING THE PICKUP UNIT



· Note:

The grating angle of the PU unit cannot be adjusted after the PU unit is changed. The PU unit in the CD mechanism module is adjusted on the production line to match the CD mechanism module and is thus the best adjusted PU unit for the CD mechanism module. Changing the PU unit is thus best considered as a last resort. However, if the PU unit must be changed, the grating should be checked using the procedure below.

• Purpose:

To check that the grating is within an acceptable range when the PU unit is changed.

Symptoms of Mal-adjustment :

If the grating is off by a large amount symptoms such as being unable to close tracking, being unable to perform track search operations, or taking a long time for track searching.

- Method :
- Measuring Equipment
- Oscilloscope, Two L.P.F.
- Measuring Points
- E, F, REFO1 • TCD-782

Disc

В

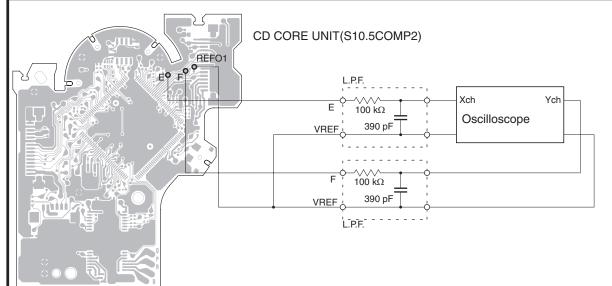
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• TEST MODE

Mode



Checking Procedure

- 1. In test mode, load the disc and switch the 3 V regulator on.
- 2. Using the $[\rightarrow]$ and $[\leftarrow]$ buttons, move the PU unit to the innermost track.
- 3. Press key [3] to close focus, the display should read "91". Press key [2] to implement the tracking balance adjustment the display should now read "81". Press key [3]. The display will change, returning to "81" on the fourth press.
- 4. As shown in the diagram above, monitor the LPF outputs using the oscilloscope and check that the phase difference is within 75°. Refer to the photographs supplied to determine the phase angle.
- 5. If the phase difference is determined to be greater than 75° try changing the PU unit to see if there is any improvement. If, after trying this a number of times, the grating angle does not become less than 75 then the mechanism should be judged to be at fault.

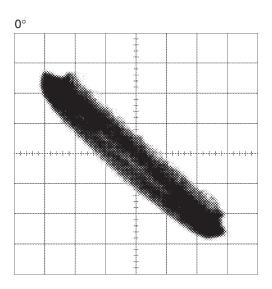
Because of eccentricity in the disc and a slight misalignment of the clamping center the grating waveform may be seen to "wobble" (the phase difference changes as the disc rotates). The angle specified above indicates the average angle.

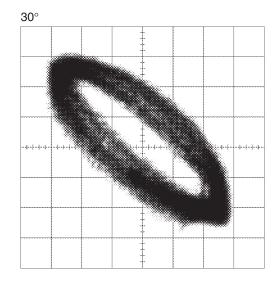
Hint

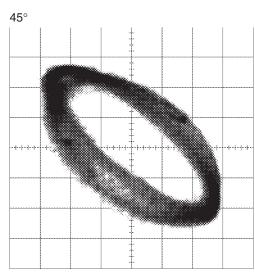
Reloading the disc changes the clamp position and may decrease the "wobble".

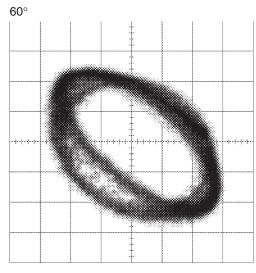
DEH-P690UB/XN/UC

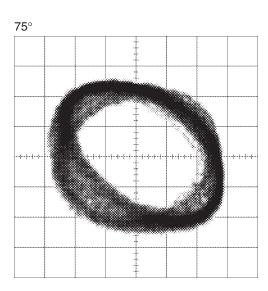
Fch \rightarrow Ych 20 mV/div, AC

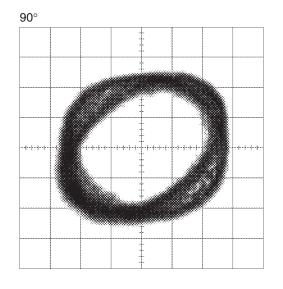












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6.3 ERROR MODE

Error Messages

If a CD is not operative or stopped during operation due to an error, the error mode is turned on and cause(s) of the error is indicated with a corresponding number. This arrangement is intended at reducing nonsense calls from the users and also for facilitating trouble analysis and repair work in servicing.

- (1) Basic Indication Method
- 1) When SERRORM is selected for the CSMOD (CD mode area for the system), error codes are written to DMIN (minutes display area) and DSEC (seconds display area). The same data is written to DMIN and DSEC. DTNO remains in blank as before.
- 2) Head unit display examples

Depending on display capability of LCD used, display will vary as shown below. xx contains the error number.

8-digit display	6-digit display	4-digit display
ERROR - xx	ERR - xx	E - xx

(2) Error Code List

В

JI COUE LIST		
Class	Displayed error code	Description of the code and potential cause(s)
Electricity	Carriage Home NG	CRG can't be moved to inner diameter.
	SERVO LSI Com-	CRG can't be moved from inner diameter.
	munication Error	ightarrow Failure on home switch or CRG move mechanism.
		Communication error between microcomputer and SERVO LSI.
Electricity	Focus Servo NG	Focusing not available.
		ightarrow Stains on rear side of disc or excessive vibrations on REWRITABLE.
Electricity	Spindle Lock NG	Spindle not locked. Sub-code is strange (not readable).
	Subcode NG	ightarrow Failure on spindle, stains or damages on disc, or excessive vibrations.
		A disc not containing CD-R data is found.
		Turned over disc are found, though rarely.
		CD signal error.
Electricity	Setup NG	AGC protection doesn't work. Focus can be easily lost.
		ightarrow Damages or stains on disc, or excessive vibrations on REWRITABLE.
Electricity	Search Time Out	Failed to reach target address.
		ightarrow CRG tracking error or damages on disc.
Electricity	ALL Skip	Skip setting for all track.
		(CD-R/RW)
Mechanism	CD On Mech Error	Mechanical error during CD ON.
		ightarrow Defective loading motor, mechanical lock and mechanical sensor.
System	Power Supply NG	Power (VD) is ground faulted.
		ightarrow Failure on SW transistor or power supply (failure on connector).
	Class Electricity Electricity Electricity Electricity Electricity Mechanism	Class Displayed error code Electricity Carriage Home NG SERVO LSI Com- munication Error Electricity Focus Servo NG Electricity Spindle Lock NG Subcode NG Electricity Setup NG Electricity Search Time Out Electricity ALL Skip Mechanism CD On Mech Error

Remarks: Mechanical errors are not displayed (because a CD is turned off in these errors).

Unreadable TOC does not constitute an error. An intended operation continues in this case.

Upper digits of an error code are subdivided as shown below:

1x: Setup relevant errors, 3x: Search relevant errors, Ax: Other errors.

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6.4 SYSTEM MICROCOMPUTER TEST PROGRAM



PCL Output

In the normal operation mode (with the detachable panel installed, the ACC switched ON, the standby mode cancelled), shift the TEST1 IC601(Pin 86) terminal to H.

The clock signal is output from the PCL1 terminal IC601(Pin 37).

The frequency of the clock signal is 468.750 kHz that is one 32th of the fundamental frequency.

The clock signal should be $468.750 \text{ kHz} \pm 19 \text{ Hz}$.

If the clock signal is out of the range, the X'tal (X601) should be replaced with new one.

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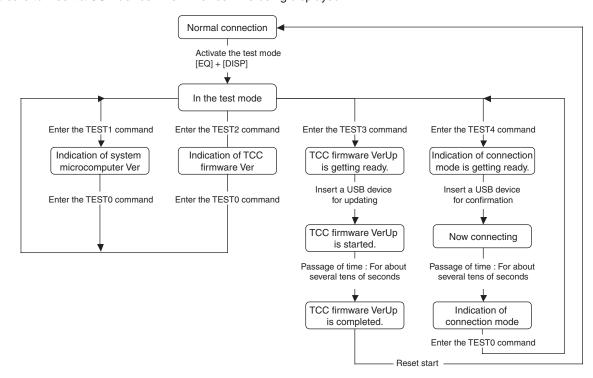
Е

6.5 TEST MODE

Implemented functions

TEST1 command	Right key
TEST2 command	Left key
TEST3 command	LIST key
TEST4 command	DISP key
TEST0 command	BAND/ESC key

- Indication of system microcomputer Ver
 - Indication of TCC firmware Ver
 - To enter the TCC firmware UpDate mode:
 - →Set this mode and insert a USB device having the UpDate program to start rewriting the device.
 - * If you carry out the TEST 3 command with the USB device inserted, a correct result is not displayed.
 - Confirmation on connection mode (mass storage class connection)
 - →Set this mode and insert a USB device. Then, the connection mode is displayed.
 - * Do not insert a USB device having the UpDate program.
 - * If you carry out the TEST 4 command with the USB device inserted, a correct result is not displayed. Be sure to insert a USB device when "DeviceIn" is being displayed.



Indications

Indication of system microcomputer Ver Indication of TCC firmware Ver

TCC firmware VerUp is getting ready. TCC firmware VerUp is started. TCC firmware VerUp is completed.

Confirmation on connection mode is getting ready.

Now connecting
Indication of connection mode

V	е	r	*	*	*	
٧	е	r	*	*	*	
				MIN	SEC SEC	

				MIN	SEC	SEC
RE	Α	D	Υ	0	0	0
UΡ	D	Τ		0	0	0
СО	M	Р	L	Е	Т	Е

Displays 0:00 to 3:00 (in increments of minutes and seconds) Displays 0:00 to 3:00 (in increments of minutes and seconds) * The time increment stops when it reaches 3:00.

D	е	٧	i	С	е	I	n
С	0	n	n	е	С	t	
		М	S	С			
		Н	Τ	D			

When a device supporting mass storage class is connected: When iPod is connected:

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7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 DISASSEMBLY

Removing the Case (not shown)

1. Remove the two screws and then remove the Case.

Removing the CD Mechanism Module (Fig.1)



Remove the four screws.

Disconnect the connector and then remove the CD Mechanism Module.

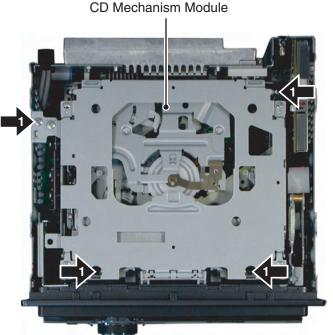


Fig.1

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Removing the Grille Assy (Fig.2)



Remove the four screws.

Disconnect the connector and then remove the Grille Assy.

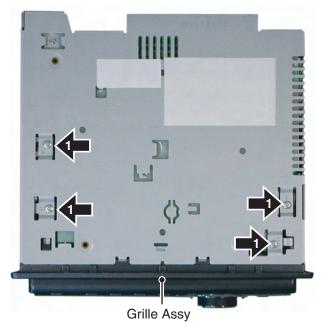
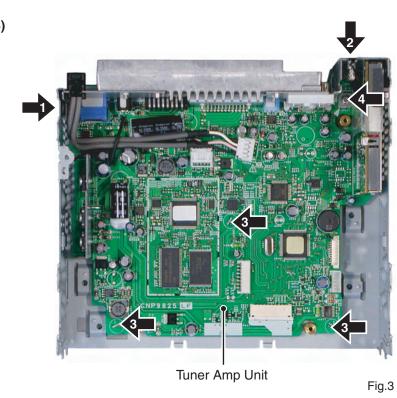


Fig.2

DEH-P690UB/XN/UC

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Removing the Tuner Amp Unit (Fig.3)

Remove the screw.

Remove the screw.

Straighten the tabs at three locations indicated.

Remove the screw and then remove the Tuner Amp Unit.

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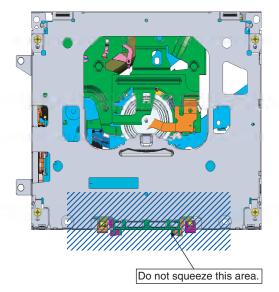
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DEH-P690UB/XN/UC

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How to hold the Mechanism Unit

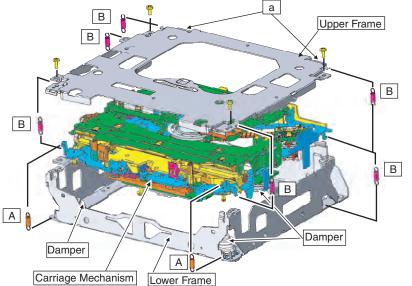
- 1. Hold the Upper and Lower Frames.
- 2. Do not hold the front portion of the Upper Frame, because it is not very solid.



Removing the Upper and Lower Frames

- 1. With a disc inserted and clamped in the mechanism, remove the two Springs (A), the six Springs (B), and the four Screws.
- 2. Turn the Upper Frame using the part "a" as a pivot, and remove the Upper Frame.
- 3. While lifting the Carriage Mechanism, remove it from the three Dampers.

Caution: When assembling, be sure to apply some alcohol to the Dampers and assemble the mechanism in a clamped state.



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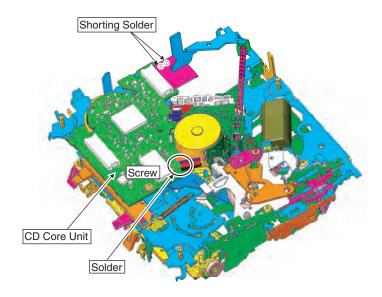
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How to remove the CD Core Unit

- 1. Apply Shorting Solder to the flexible cable of the Pickup, and disconnect it from the connector.
- 2. Unsolder the four leads, and loosen the Screw.
- 3. Remove the CD Core Unit.

Caution: When assembling the CD Core Unit, assemble it with the SW in a clamped state so as not to damage it.

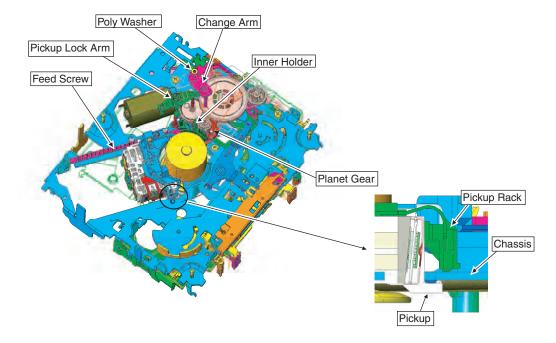


How to remove the Pickup Unit

- 1. Make the system in the carriage mechanism mode, and have it clamped.
- 2. Remove the CD Core Unit and remove the leads from the Inner Holder.
- 3. Remove the Poly Washer, Change Arm, and Pickup Lock Arm.
- 4. While releasing from the hook of the Inner Holder, lift the end of the Feed Screw.

Caution: When assembling, move the Planet Gear to the load/eject position before setting the Feed Screw in the Inner

Assemble the sub unit side of the Pickup, taking the plate (Chassis) in-between. When treating the leads of the Load Carriage Motor Assy, do not make them loose over the Feed Screw.

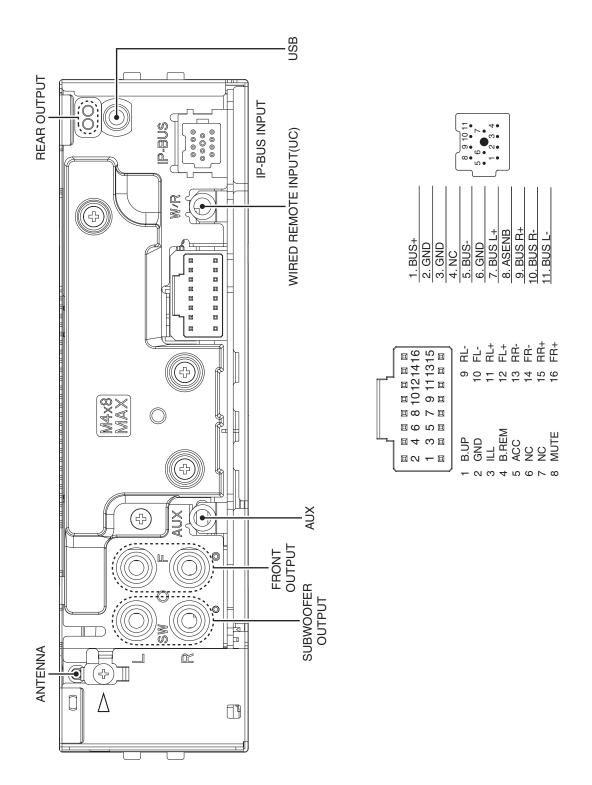


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7.1.2 CONNECTOR FUNCTION DESCRIPTION

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7.2 IC

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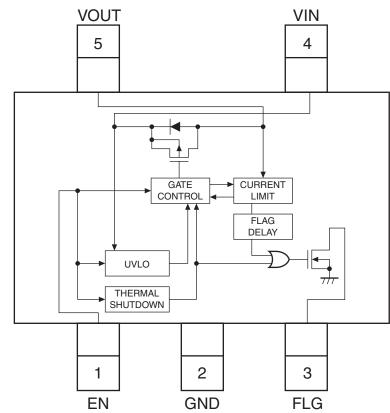
Е

R5523N001B PEH084A LT1766EFE-5 PAL007C TC4066BFT TCC8600-00X-EA-AG PML016B AK4388VT 341S2025 PEG301A NJM2872BF18 NJM2872BF05 HY57V641620ETP-H PE5547A PEG312A8

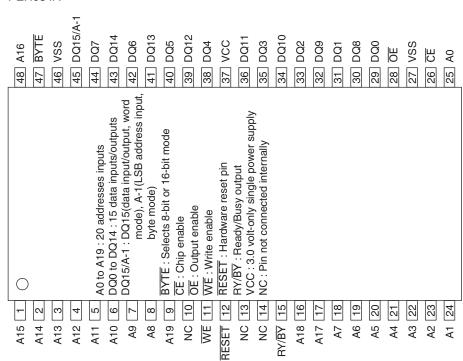
3

PD8174A PD8173A

R5523N001B



PEH084A



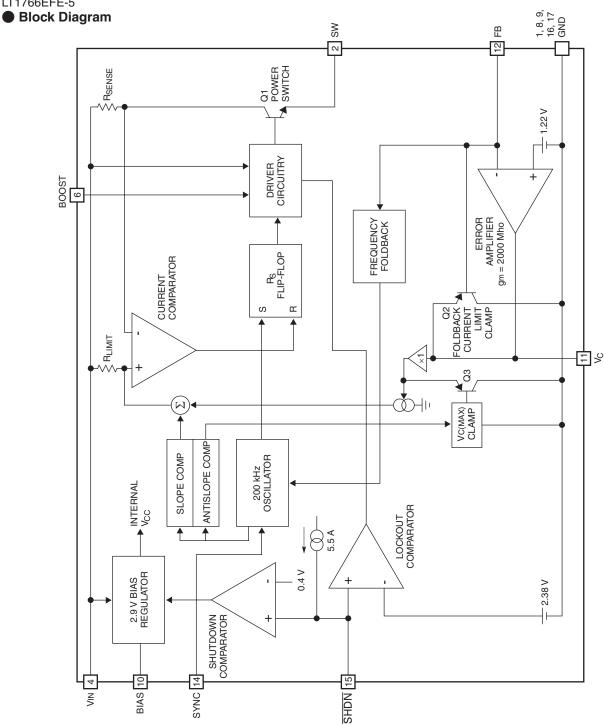
DEH-P690UB/XN/UC

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LT1766EFE-5

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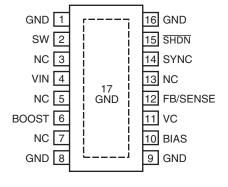
В

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Pin Layout

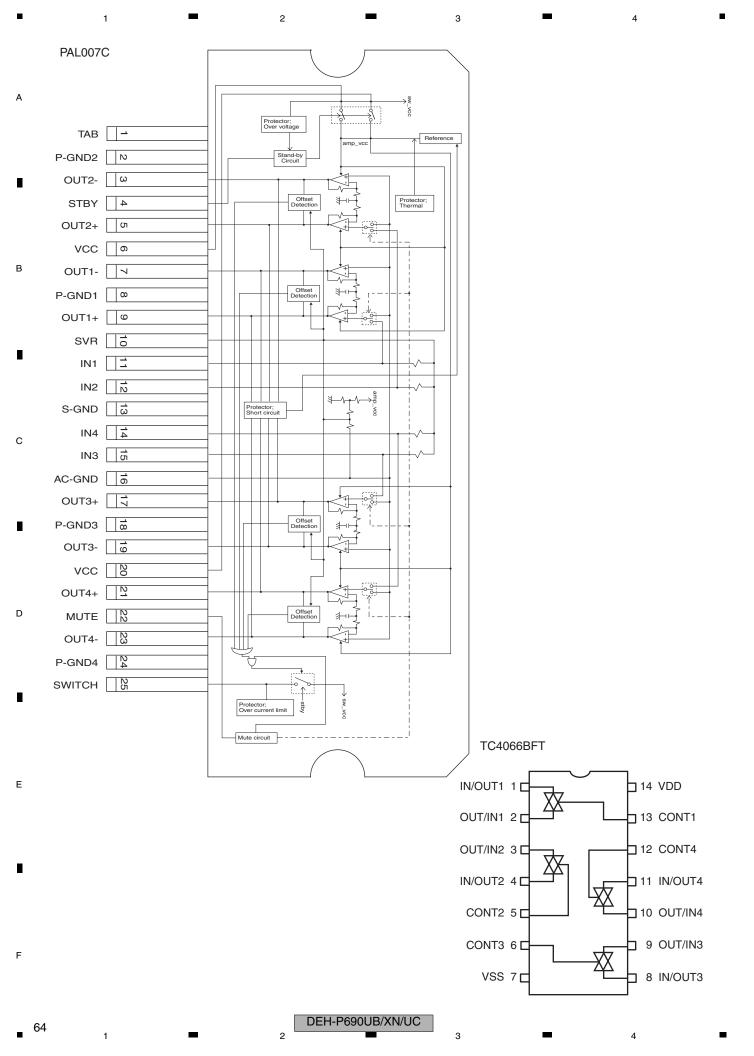


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DEH-P690UB/XN/UC

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● Pin Functions(TCC8600-00X-EA-AG)

	nctions(TCC8600-0	1	,
Pin No.	Pin Name	I/O	Function and Operation
1	VSS		Digital ground
2-6	XD[4]-[8]	I/O	External bus data bit [4]-[8]. Internal pull-up resistor enabled at reset.
7	VDDI		Digital power for internal core (1.8 V)
8	VSS		Digital ground
9	VDDIO		Digital power for I/O (3.3 V)
10-16	XD[9]-[15]	I/O	External bus data bit [9]-[15]. Internal pull-up resistor enabled at reset.
17-23	XA[0]-[6]	I/O	External bus address bit [0]-[6]
24	VDDI		Digital power for internal core (1.8 V)
25	VSS		Digital ground
26	VDDIO		Digital power for I/O (3.3 V)
27-39	XA[7]-[19]	I/O	External bus address bit [7]-[19]
40	VDDI		Digital power for internal core (1.8 V)
	XA[20], [21]	I/O	External bus address bit [20], [21]
43	VDDIO VDDIO	., 0	Digital power for I/O (3.3 V)
44	SD_CLK	I/O	SDRAM clock
45	VSS	1/0	Digital ground
46	SD_CKE	I/O	SDRAM clock enable signal. Active high.
47	SD_nCS	I/O	Chip select signal for SDRAM, active low
47	nWE	1/0	Static memory write enable signal. Active low.
	nOE	1/0	Static memory write enable signal. Active low. Static memory output enable signal. Active low.
49			
	nCS[0]/ND_nOE[0]	1/0	External bus chip select [0] / NAND flash output enable [0]
	nCS[1]/ND_nOE[1]	I/O	External bus chip select [1] / NAND flash output enable [1]
	nCS[2]/ND_nOE[2]	I/O	External bus chip select [2] / NAND flash output enable [2]
	nCS[3]/ND_nOE[3]	I/O	External bus chip select [3] / NAND flash output enable [3]
54	XOUT	0	12 MHz crystal oscillator output
55	XIN	I	12 MHz crystal oscillator input. Voltage must not exceed VDDI (1.95 V).
	XTOUT	0	32.768 kHz crystal oscillator output
57	XTIN	I	32.768 kHz crystal oscillator input. Voltage must not exceed VDDI (1.95 V).
58	VDDI		Digital power for internal core (1.8 V)
59	VSS		Digital ground
60	GPIO_B[6]	I/O	GPIO_B[6]
61	ND_nWE	I/O	NAND flash WE. Active low
62	UART0TXD	I/O	UART0 TX data
63	UART0RXD	I/O	UART0 RX data
64	READY	I	Ready information from external device.
65	VDDIO		Digital power for I/O (3.3 V)
	ADIN4		General purpose multi-channel ADC input 4
67	ADIN2		General purpose multi-channel ADC input 2
68	ADIN0		General purpose multi-channel ADC input 0
69	VDDADC		Analog power for ADC (3.3 V)
	VSSADC		Analog ground for ADC
	VSSPLL1		Analog ground for PLL
	XFILT1		PLL1 filter output. 1 200 pF capacitor is required.
73	VDDPLL1		Analog & digital power for PLL1 (1.8 V)
	VDDPLLT		Analog & digital power for PLL (1.8 V)
	XFILT		PLL0 filter output. 350 pF capacitor is required.
			Analog ground for PLL
76	VSSPLL		
77	nRESET	l	System Reset. Active low.
78	MODE1	I I	Mode setting input 1. Pull-down for normal operation.
79	USBH0_DN	I/O	USB host port 0 D- signal
80	USBH0_DP	I/O	USB host port 0 D+ signal
81	VSS		Digital ground
82	USBH1_DN	I/O	USB host port 1 D- signal
	I		LICD heat next 4 D. signal
83	USBH1_DP VDDUSB	I/O	USB host port 1 D+ signal Power for USB I/O (3.3 V)

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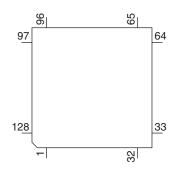
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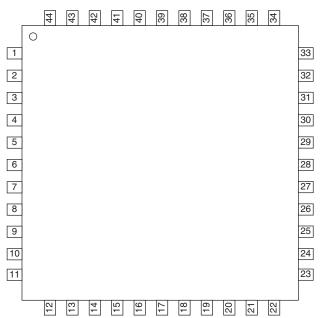
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			E : 10 ::
Pin No.	Pin Name	I/O	Function and Operation
	VDDIO		Digital power for I/O (3.3 V)
	BCLK	I/O	I2S bit clock / Boot mode bit 0 (BM[0])
	LRCK	I/O	I2S word clock / Boot mode bit 1 (BM[1])
	MCLK	I/O	I2S System Clock
	DAO	I/O	I2S digital audio data output / Boot mode bit 2 (BM[2])
	DAI	I/O	I2S digital audio data input
	VDDI		Digital power for internal core (1.8 V)
92	GPIO_D[15]	I/O	GPIO_D[15]
93	GPIO_D[16]	I/O	GPIO_D[16] / I2C SDA
94	GPIO_D[17]	I/O	GPIO_D[17] / I2C SCL
95,96	GPIO_D[18],[19]	I/O	GPIO_D[18], [19]. Internal pull-up resistor enabled at reset.
	VSS		Digital ground
98,99	GPIO_D[20],[21]	I/O	GPIO_D[21], [20]. Internal pull-up resistor enabled at reset.
	TDI	I/O	JTAG serial data input. Internal pull-up resistor is enabled at reset
101	TMS	I/O	JTAG test mode select. Internal pull-up resistor is enabled at reset
102	TCK	I/O	JTAG test clock. Internal pull-up resistor is enabled at reset
103	TDO	I/O	JTAG serial data output. Internal pull-up resistor is enabled at reset
104	nTRST	I/O	JTAG reset signal. Active low. Internal pull-up resistor is enabled at reset
105	GPIO_A[0]	I/O	GPIO_A[0] / GPSB/GSIO1 data output
	GPIO_A[1]	I/O	GPIO_A[1] / GPSB/GSIO1 clock
	GPIO_A[2]	I/O	GPIO_A[2] / GPSB/GSIO1 FRM
	GPIO_A[3]	I/O	GPIO_A[3] / GPSB/GSIO1 data in
	GPIO_A[4]	I/O	GPIO_A[4] / GPSB/GSIO1 data output
	VDDI		Digital power for internal core (1.8 V)
	GPIO_A[5]	I/O	GPIO_A[5] / GPSB/GSIO1 clock
	GPIO_A[6]	I/O	GPIO_A[6] / GPSB/GSIO1 FRM
	GPIO_A[7]	I/O	GPIO_A[7] / GPSB/GSIO1 data in
	GPIO_A[8]	I/O	GPIO_A[8] / I2C data line / GPSB/GSIO3 data output
	GPIO_A[9]	I/O	GPIO_A[9] / I2C clock./ Bus width (BW) / GPSB/GSIO3 clock
	GPIO_A[10]	I/O	GPIO_A[10] / I2C data line / GPSB/GSIO3 FRM
	GPIO_A[11]	I/O	GPIO_A[11] / I2C clock / GPSB/GSIO3 data in
	VSS		Digital ground
	VDDIO		Digital power for I/O (3.3 V)
	EXINT[0]-[3]	I/O	External interrupt request [0]-[3]
	VDDI	., -	Digital power for internal core (1.8 V)
	XD[0]-[3]	I/O	External bus data bit [0]-[3]. Internal pull-up resistor enabled at reset.

TCC8600-00X-EA-AG



PML016B **● Pin Layout**

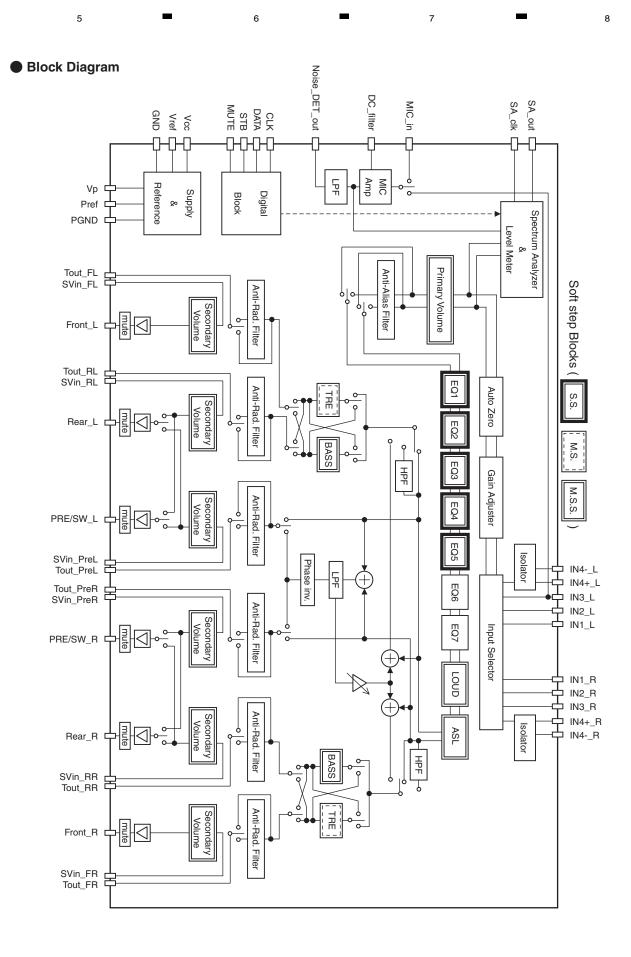


DEH-P690UB/XN/UC

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DEH-P690UB/XN/UC

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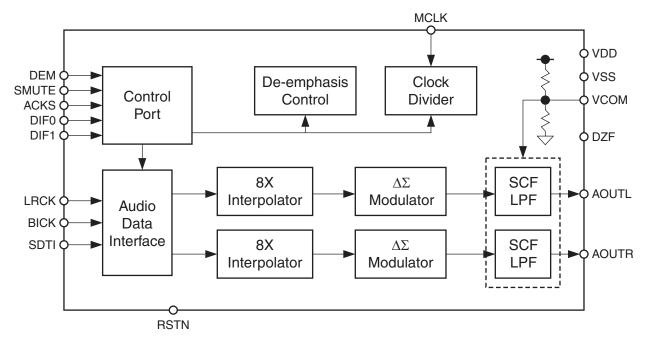
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Block Diagram



Pin Layout

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Pin Functions (341S2025)

Pin Fu	nctions (341S202	5)	
Pin No.	Pin Name	I/O	Function and Operation
1	VCC		Supply voltage, positive terminal
2	XIN		32.768 kHz crystal oscillator or external clock source
3	XOUT		32.768 kHz crystal oscillator or external clock source
4	CLOCK_ENAB	I	CLOCK_OUT enable (active high)
5,6	NC		Not used
7	I2C_SCL	I/O	I2C clock
8-10	I2C_ADDR0-2	I	I2C slave address selection
11	CP_READY	0	CP ready to receive next instruction (active high)
12	MODE0	I	Operating voltage selection
13	MODE1	I	Communication mode selection
14	NC		Not used
15	I2C_SDA	I/O	I2C data
16	MODE2	I	Communication mode selection
17	ROSC	I	Connect via 100 k 1% resistor to VCC
18	SPI_nSS	I	SPI slave select (active low)
19	SPI_SIMO	I	SPI master-to-slave data
20	SPI_SOMI	0	SPI slave-to-master data
21	SPI_UCLK	I	SPI clock
22-31	NC		Not used
32	CLOCK_OUT	0	32.768 kHz clock output, if selected by CLOCK_ENAB
33-37	NC		Not used
38	nRESET	I	CP reset (active low)
39	VSS		Supply voltage, negative terminal
40	VCC		Supply voltage, positive terminal

● Pin Functions (PEG301A)

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Pin No.	Pin Name	I/O	Format	Function and Operation
1	SYSPW	0	С	System power control output
2	KEYD/NC	1/		Wired remote control key input(UC)/Not used(ES)
3	AMPPW	0	С	AMP power supply control output
4	USBPW	0	С	Control terminal of DD converter for USB power supply
5	NC			Not used
6	BYTE	I		External data bus width change input
7	CNVSS	1		Processor mode change input
8	TELIN	1		TEL mute input
9	NC			Not used
10	RESET	1		Reset input
11	XOUT	0		Main clock output
12	VSS	Ī		GND
13	XIN	i		Main clock input
14	VCC	i		Power supply input(+)
15	NMI	i	С	NMI input
16,17	NC		 	Not used
18	VDCONT	0	С	CD mechanism power supply output
19	RX2	ī		IPBUS : Input 2
20	OELPW	0	С	OEL power supply control
21	BRXEN	1/0	C	P-BUS : Reception enable input/output
22	SYNC	0	C	DD converter frequency control terminal for USB power supply
23	BRST	0	C	P-BUS : Reset output
24	PEE	0	C	BEEP sound output
25	NC			Not used
26	BSRQ	1		P-BUS : Service request input
27	RX	1		IPBUS : Input
28	TX	0	N	IPBUS : Output
29	DPDT	0	C	OEL display microcomputer communication data output
30	KYDT	i i		OEL display microcomputer communication data output OEL display microcomputer communication data input
31,32	NC	'		Not used
31,32	USB_TX	0	С	Serial data output
	USB_RX	ļ ,		Serial data output
34		!		Rotary encoder pulse input 1,0
35,36	ROT1,0 PCL	0		Output for clock adjustment
37		0	C	OEL display microcomputer chip enable output
38	SWVDD	0	_ C	Not used
39 40	NC FLPILM			Flap illumination output
		0	C	Illumination power output
41	ILMPW	0	C	TCC860 reset terminal
42	XRST	0	<u> </u>	
43,44	NC			Not used Power supply output control terminal for USB
45	USBCTL	0	С	TUNER : Data input(PLL)
46	TUNPDI	I	С	
47	TUNPDO	0	С	TUNER : Data output(PLL) TUNER : Clock output(PLL)
48	TUNPCK	0	С	1 ()
49	FLPPW	0	С	Flap motor power supply output
50	FOLCOW		С	Flap open sense input
51	FCLSSW	1	С	Flap close sense input
52	FLPCLS	0	С	Flap close operation output
53	FLPOPN	0	С	Flap open operation output
54	USBTESTTRK	0	С	TrackUP operation terminal(In USB test mode, I/O : I)
55	USBTESTNOW	0	С	TrackUP operation terminal
56	USBTESTNG	0	С	OK/NG output terminal
57	EMUTE	0	С	EVOL: Mute
58	SACLK	0	С	Level indicator clock output
59	USBTESTIN		С	TESTIN terminal for USB only

DEH-P690UB/XN/UC

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С

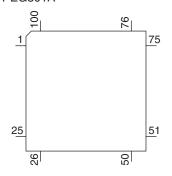
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Dia Na	Dia Massa	1/0	Гашталь	Function and Operation
Pin No.	Pin Name	I/O	Format	·
60	VCC	I		Power supply input(+) Not used
61	NC			GND
62	VSS	I		
63-66	NC			Not used
67	DALMON	0	С	For consumption current reduction output
68	NC	_	_	Not used
69	TUNPCE2	0	С	TUNER : Chip enable output(EEPROM)
	TUNPCE1	0	С	TUNER : Chip enable output(PLL)
71	ROMCS	0	С	ROM correction chip select output
72		I		ACC sense input
73	BSENS	I		Backup sense input
74	ROMCK	0	С	ROM correction clock output
75	ROMDATA	I/O	С	ROM correction data input/output
76	VST	0	С	EVOL : Strobe output
77	VDT	0	С	EVOL : Data output
78	VCK	0	С	EVOL : Clock output
79	IPPW	0	С	IPBUS : Driver power supply control output
80	ASENBO	0	С	IPBUS : Slave ACC sense output
81	ISENS	I		Illumination sense
82	NC			Not used
83	MODEL0	I		Model select input 0
84	TUAUSEL	0	С	EVOL : Source select switch
85	MUTE	0	С	System mute output
86	TESTIN	I		Test program input
87	FLG	I		USBCONT control terminal
88	NC			Not used
89	KEYAD/NC	I/		Wired remote control AD input(UC)/Not used(ES)
90	SAOUT	I		Level indicator input
91	DSENS	I		Detach sense input
92	CDRST	0	С	CD RESET output
93	NC			Not used
94	AVSS	I		Analog GND
95	SL	I		Signal level input(Field intensity)
96	VREF	I		Reference voltage input
97	AVCC	I		Analog power supply input
98	BSI/TSI	I		P-BUS : Input/Test program : data input
99	BSO/TESTDO	0	С	P-BUS : Output/Test program : data output
100	BSCK/TSCK	0	С	P-BUS : Clock output/Test program : clock output



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Format	Meaning
С	CMOS
N	Nch open drain

DEH-P690UB/XN/UC

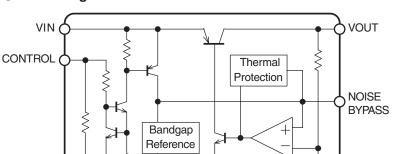
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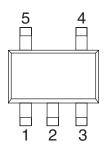
NJM2872BF18 NJM2872BF05

GND

Block Diagram



Pin Layout



- 1. VIN
- 2. GND
- 3. CONTROL 4. NOISE BYPASS

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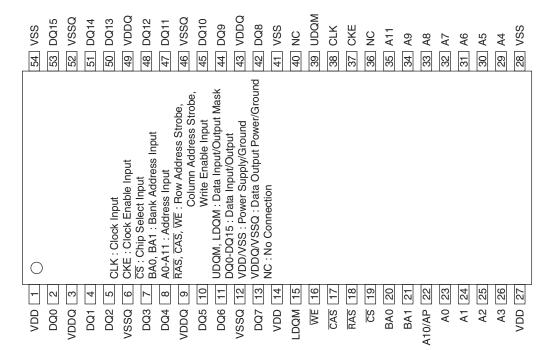
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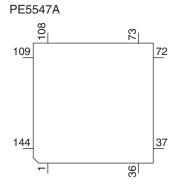
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5. VOUT

HY57V641620ETP-H





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Format	Mooning
romat	Meaning
C	CMOS
N	Nch open drain

● Pin Functions (PE5547A)

Pin No.	Pin Name	I/O	Format	Function and Operation
1	ROMDATA	I/O	/C	E2PROM : Data input/output
	ROMCK	0	С	E2PROM : Clock output
3	ROMCS	0	С	E2PROM : Chip select output
4	NC			Not used
5	LOEJ	0	С	LOAD/EJECT direction switching output
6	DSCSNS	I		Disc sense input
7	8SNS	I		8 cm disc detection input
8	12SNS	I		12 cm disc detection input
	HOME	ı		HOME SW sense input
	TEMP			Temperature information sense input
11	VDSENS			VD power supply short circuit/earth fault sense input
	ADENA	0	С	A/D reference voltage supply control output
	ADC.VDD			Power supply for A/D converter
	ADC.GND			Ground for A/D converter
	FLMD0			Flash writing control terminal
		1		
	RESET	1		Internal microcomputer reset terminal
17	PULLDOWN	0	С	Pull-down
	NC			Not used
19	TESTIN	I		Chip check, test program start-up input
20	NC			Not used
21	BSI	I	N	P-BUS : Serial data input
	BSO	0	N	P-BUS : Serial data output
	BSCK	I/O	N	P-BUS : Serial clock input/output
	FTxD	0	N	Tx for flash rewriting
25	FRxD	I		Rx for flash rewriting
26	BRXEN	I/O	/C	P-BUS : Reception enable input/output
27	BSRQ	I/O	/C	P-BUS : Service request input
28	NC			Not used
29	FMODE	I		Flash self-rewriting mode start-up input
30	FLRQ	0	С	Flash self-rewriting reset voltage control
31	ROM	I		Open(EMPH)
32-36				Not used
	MCKRQ	0	N	CLOCK request
	LRCKOK	0	N	LRCK reference enable
39	PUEN	0	C	Pickup hologram power supply control output
40	CD3VON	0	C	CD + 3.3 V power supply control output
41	CONT	0	C	Servo driver power supply control output
	VDCONT	0	C	VD power supply control output
42 43		0	C	CRG/LOAD-EJECT switching control output
	CLCONT			- · · · · · · · · · · · · · · · · · · ·
	CDMUTE	0	С	CD mute control output
	TEST	I		Test terminal
	BRST	I		P-BUS : Communication reset input
	REGS			Capacitor connection for standby
	C.VDD			Power supply for internal microcomputer
	C.GND			Ground for internal microcomputer
	XTAL	I		Connected to the crystal oscillator
	X.GND			Ground for the crystal oscillator
	XTAL	0		Connected to the crystal oscillator
53	X.VDD			Power supply for the crystal oscillator
54	DA.VDD			Power supply for DAC
	LOUT	0		Output of audio for the left channel
	DA.GND	-		Ground for DAC
	REGC			Connected to the capacitor for band gap
57			1	
57 58	DA.GND			Ground for DAC

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Pin No.	Pin Name	I/O	Format	Function and Operation
60	DA.VDD			Power supply for DAC
61	D.GND			Ground for digital circuits
62	D.VDD			Power supply for digital circuits
63	REG16			Capacitor connection for 1.6 V regulator
64	LRCK	0	С	3-wire audio LR clock output
65	SCKO	0	С	3-wire audio serial I/F clock output
66	DOUT	0	С	3-wire audio serial I/F data output
67-69	SVMON0-2	I/O	/C	Servo monitor input/output 0-2
70	SVMON3	I/O	/C	Servo monitor input/output 3(Ext MCK IN)
71	C33M	0	С	DRAM CLOCK
72	(RCS)	0	С	DRAM CS
73	(CKÉ)	0	С	DRAM CKE output
74	RAS	0	С	Output of DRAM RAS
75	CASO(LDQM)	0	С	DRAM Lower CAS(LDQM) output
76	CAS1(UDQM)	0	С	DRAM Upper CAS(UDQM) output
77	WE	0	C	Output of DRAM WE
78	OE(CAS)	0	C	DRAM OE(CAS) output
79-94	RDB0-15	I/O	/C	Input/output of DRAM data 0-15
95	IO.GND		,	Ground for I/O terminal
96	IO.VDD			Power supply for I/O terminal
97-108	RA0-11	0	С	Output of DRAM address 0-11
109	FD	0	C	Output of focus drive PWM
110	TD	0	C	Output of reacking drive PWM
111	SD	0	C	Output of thread drive PWM
112	MD	0	C	Output of thread drive PWM Output of spindle drive PWM
113	EFM	0	C	Output of Spiritie university of Couput of EFM signals
114	ASY	I		Asymmetry input
115		0		Analog tests
116	ATEST A.VDD	0		Power supply for the analog system
	A.GND			Ground for the analog system
117				Input of RF
118	RFI	1		
119	AGCO	0		Output of RF
120	C3T			Connection to the capacitor for detecting 3T
121	AGCI	1		Input of AGC
122	RFO	0		Output of RF(AGC)
123,124	EQ2,1	!		Equalizer 2, 1
125	RF2-	!		Reversal input of RF2
126	RF-	I		Reversal input of RF
	A.GND			Ground for the analog system
128	A.VDD			Power supply for the analog system
129	A	1		Input of A
130	В	1		Input of B
131	F	1		Input of F
132	E	I		Input of E
133	REFOUT	0		Output of reference voltage
134	FE-	I		Reversal input of FE
135	FEO	0		Output of FE
136	ADCIN	I		FE,TE A/D converter input
137	TE-	I		Reversal input of TE
138	TEO	0		Output of TE
139	TE2	0		TE2
140	TEC			TEC
141	LD	0		Output of LD
142	PD	I		Input of PD
	AD.VDD			Power supply for servo ADC
144				Ground for servo ADC
141 142 143	PD AD.VDD	0		Output of LD Input of PD Power supply for servo ADC

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● Pin Functions (PEG312A8)

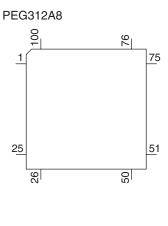
Pin No.	Pin Name	I/O	Format	Function and Operation
1	NC			Not used
	ROMDT	I/O	С	ROM correction data input/output
3	ROMCK	0	С	ROM correction clock output
4	REM	I		Remote control input
5	ROMCS	0	С	ROM correction chip select output
6	BYTE	I		External data bus width change input(VSS)
7	CNVSS	I		Processor mode change input
	NC			Not used
10	RESET	I		Reset input
11	XOUT	0		Clock output
12	VSS1			GND
13	XIN	I		Clock input
14	VCC1			Power supply input
15	NMI	I		NMI input
	NC			Not used
	KS3	0	С	Key strobe 3(Not used)
18-20		I/O	С	Key strobe 2-0
21	NC	_	_	Not used
22	DSEL	0	С	OEL driver : Display data select
	NC			Not used
24	CKD	0	С	OEL driver : Data transfer and driver clock frequency
25	NC			Not used
	LS	0	С	OEL driver : Line sync signal
27	DPDT	ī	N	System controller communication : Display data input
	KYDT	Ö	N	System controller communication : Key data output
29-32			14	Not used
33	OELD	0	С	OEL driver : Display data
	NC			Not used
35		I	С	OEL driver : Clock input for UART0
	NC	•		Not used
37	RDY	ı	С	RDY signal input
38	NC	ı	<u> </u>	Not used
	HOLD	I	С	HOLD signal input
40,41	NC	ı	C	Not used
	RD	0	С	Image ROM : Read strobe
42	NC		<u> </u>	Not used
	CS2,1	0	С	Image ROM : Bank address 1,0
46,47		0	C	External extended ROM chip select(image ROM)
48	CS0			Image ROM : Address bus 19 bit
49	A19	0	С	
	A18	0	C	Non connection
51	A17	0	С	Image ROM : Address bus 17 bit
	A16	0	С	Image ROM : Address bus 16 bit
	A15	0	С	Image ROM : Address bus 15 bit
	A14	0	С	Image ROM : Address bus 14 bit
	A13	0	С	Image ROM : Address bus 13 bit
	A12	0	C	Image ROM : Address bus 12 bit
57	A11	0	С	Image ROM : Address bus 11 bit
	A10	0	С	Image ROM : Address bus 10 bit
	A9	0	С	Image ROM : Address bus 9 bit
	VCC2			Power supply input
61	A8	0	С	Image ROM : Address bus 8 bit
	VSS2			GND
	A7	0	С	Image ROM : Address bus 7 bit
64	A6	0	С	Image ROM : Address bus 6 bit
65	A5	0	С	Image ROM : Address bus 5 bit

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Pin No.	Pin Name	I/O	Format	Function and Operation
66	A4	0	С	Image ROM : Address bus 4 bit
67	A3	0	С	Image ROM : Address bus 3 bit
68	A2	0	С	Image ROM : Address bus 2 bit
69	A1	0	С	Image ROM : Address bus 1 bit
70	A0	0	С	Non connection
71	D15	I	С	Image ROM : Data bus 15 bit
72	D14	I	С	Image ROM : Data bus 14 bit
73	D13	I	С	Image ROM : Data bus 13 bit
74	D12	I	С	Image ROM : Data bus 12 bit
75	D11	I	С	Image ROM : Data bus 11 bit
76	D10	I	С	Image ROM : Data bus 10 bit
77	D9	I	С	Image ROM : Data bus 9 bit
78	D8	I	С	Image ROM : Data bus 8 bit
79	D7	I	С	Image ROM : Data bus 7 bit
80	D6	I	С	Image ROM : Data bus 6 bit
81	D5	I	С	Image ROM : Data bus 5 bit
82	D4	I	С	Image ROM : Data bus 4 bit
83	D3	I	С	Image ROM : Data bus 3 bit
84	D2	I	С	Image ROM : Data bus 2 bit
85	D1	I	С	Image ROM : Data bus 1 bit
86	D0	I	С	Image ROM : Data bus 0 bit
87	NC			Not used
88	JOYST	I	С	Rotary commander AD input terminal
89,90	NC			Not used
91	KD3	0	С	Key data 3(Not used)
92,93	KD2,1	I	С	Key data 2,1
94	AVSS			Analog GND
95	KD0	I	С	Key data 0
96		I		Reference voltage input
97				Analog power supply input
98		0	С	Terminal for Dimmer control
99,100	NC			Not used



Format	Meaning
С	CMOS
N	Nch open drain

PD8174A PD8173A 31 D15/A-1 33 BYTE 32 VSS 23 VCC 40 A10 38 A12 36 A14 27 D13 25 D12 39 A11 37 A13 29 D14 43 A19 35 A15 34 A16 26 D5 24 D4 42 A8 28 D6 41 A9 30 D7 D15/A-1 : Data output/Address input VCC: Power supply voltage A0 to A19 : Address input
D0 to D14 : Data output
CE : Chip enable
OE : Output enable
BYTE : Mode switch A0 11 NC: Non connection VSS:GND D0 15 D8 16 D1 17 NC -A6 5 VSS 13 D3 21 A5 6 A1 10 CE 12 OE 14 D9 18 D2 19 D10 20 D11 22 A18 2 A17 3 A3 8 A2 9 A7 4 A4

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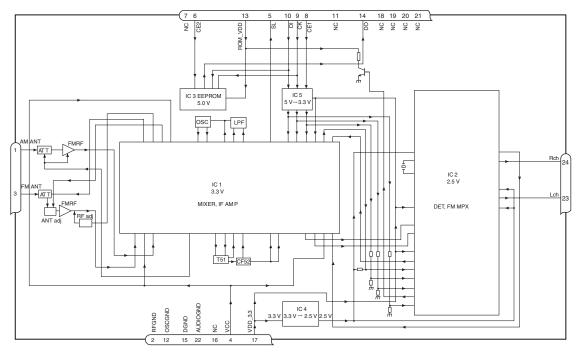
● FM/AM Tuner Unit

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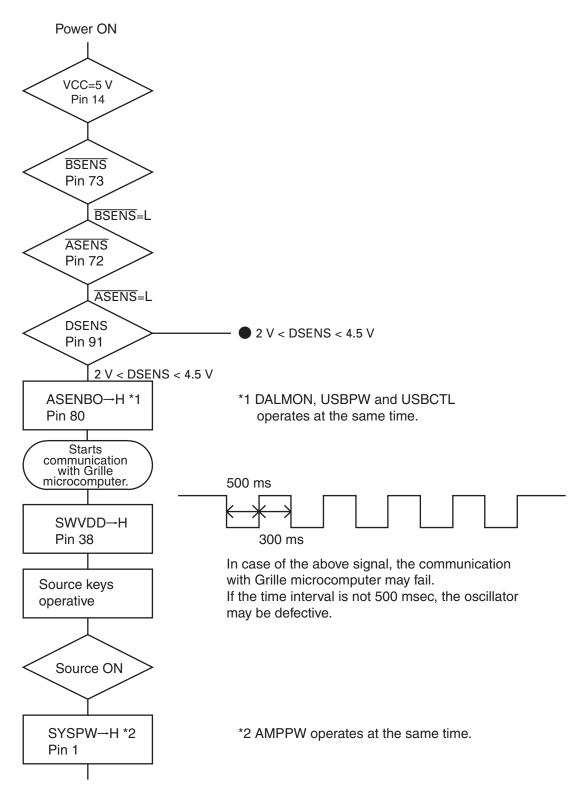
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No.	Symbol	I/O	Explain	
1	AMANT	I	AM antenna input	AM antenna input high impedance AMANT pin is connected with
				an all antenna by way of 4.7 µH. (LAU type inductor) A series circuit
				including an inductor and a resistor is connected with RF ground for
				the countermeasure against the hum of power transmission line.
2	RFGND		RF ground	Ground of antenna block
3	FMANT	ı	FM antenna input	Input of FM antenna 75 Ω Surge absorber (DSP-201M-S00B) is necessary.
4	VCC		power supply	The power supply for analog block. D.C 8.4 V \pm 0.3 V
5	SL	0	signal level	Output of FM/AM signals level
6	CE2	- 1	chip enable-2	Chip enable for EEPROM "Low" active
7	NC		non connection	Not used
8	CE1	1	chip enable-1	Chip enable for AF•RF "High" active
9	CK	ı	clock	Clock
10	DI	ı	data in	Data input
11	NC		non connection	Not used
12	OSCGND		osc ground	Ground of oscillator block
13	ROM_VDD		power supply	Power supply for EEPROM pin 13 is connected with a power supply of
				micro computer.
14	DO	0	data out	Data output
15	DGND		digital ground	Ground of digital block
16	NC		non connection	Not used
17	VDD_3.3		power supply	The power supply for digital block. $3.3 \text{ V} \pm 0.2 \text{ V}$
18	NC		non connection	Not used
19	NC		non connection	Not used
20	NC		non connection	Not used
21	NC		non connection	Not used
22	AUDIOGND		audio ground	Ground of audio block
23	L ch	0	L channel output	FM stereo "L-ch" signal output or AM audio output
24	R ch	0	R channel output	FM stereo "R-ch" signal output or AM audio output

DEH-P690UB/XN/UC

7.3 OPERATIONAL FLOW CHART



Completes power-on operation. (After that, proceed to each source operation)

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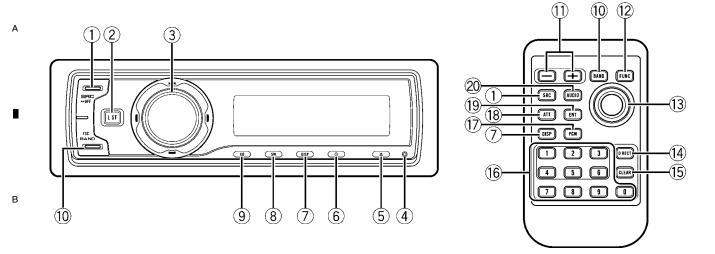
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8. OPERATIONS



What's What

Head unit

① SOURCE button

This unit is turned on by selecting a source. Press to cycle through all the available sources.

② LIST button

Press to display the disc title list, track title list, folder list, file list or preset channel list depending on the source.

3 MULTI-CONTROL

Move to perform manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions.

Turn to increase or decrease the volume.

(4) RESET button

Press to reset the microprocessor.

5 EJECT button

Press to eject a CD from your built-in CD player.

Press and hold to open or close the front panel.

6 CLOCK button

Press to change to the clock display. Press and hold to change the channel select

mode when XM tuner or SIRIUS tuner is selected as the source.

⑦ DISPLAY button

Press to select different displays.

(8) SW button

Press to select the subwoofer setting menu. Press and hold to select the bass boost setting menu.

9 EQ button

Press to select various equalizer curves.

10 BAND button

Press to select among three FM bands and one AM band and to cancel the control mode of functions.

Remote control

Operation is the same as when using the buttons on the head unit.

11) VOLUME buttons

Press to increase or decrease the volume.

12 FUNCTION button

Press to select functions.

DEH-P690UB/XN/UC

13 Joystick

Move to perform manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions. Functions are the same as **MULTI-CONTROL** except for volume con-

MULTI-CONTROL except for volume control.

(14) **DIRECT button**

Press to directly select the desired track.

(15) CLEAR button

Press to cancel the input number when **0** to **9** are used.

16 0 to 9 buttons

Press to directly select the desired track, preset tuning or disc. Buttons **1** to **6** can operate the preset tuning for the tuner or disc number search for the multi-CD player.

(17) PGM button

Press to operate the preprogrammed functions for each source.

18 ATT button

Press to quickly lower the volume level, by about 90%. Press once more to return to the original volume level.

19 ENTERTAINMENT button

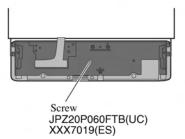
Press to change to the entertainment display.

20 AUDIO button

Press to select various sound quality controls.

Fastening the front panel

If you do not plan to detach the front panel, the front panel can be fastened with supplied screw.



3 2 **Connection Diagram** Power amp (sold separately) Power amp (sold separately) Power amp (sold separately) Right | Front speaker Front speaker 1 Rear speaker Rear speaker Subwoofer System remote control Connect with RCA cables . ① **.** ⊕ ั 1 (sold separately) Violet/black Gray/black Violet Gray Green White White/black Green/black Multi-CD player (sold separately) amp or auto-antenna relay control terminal (max. 300 mA 12 V DC). Connect to system control terminal of the power Rear speaker Front speaker **①** ٳ⊕ 1 $\oplus \coprod \oplus$ Rear speaker Front speaker Subwoofer Wired remote input Hard-wired remote control adaptor can be connected (sold IP-BUS input (Blue) 16 cm (6-1/4 in.) Rear output - This product IP-BUS cable Left separately). Blue/white 20 cm (7-7/8 in.) ۔ } Perform these connections when using the optional amplifier. With a 2 speaker system, do not connect anything to the speaker leads that are not Use a stereo mini plug cable to connect with auxiliary Front output Mute lead on that equipment. If not, keep the Audio Mute lead free of any If you use an equipment with Mute function, wire this lead to the Audio Fuse resistor Fuse resistor 00 AUX jack (3.5 ø) Connect the USB portable audio player or USB memory (sold separately). connected to speakers. equipment. Fuse (10 A) Subwoofer output Connect to terminal controlled by ignition switch (12 V DC). 1.5 m (4 ft. 9 in.) Antenna jack USB cable Connect to the constant 12 V supply terminal. Black (chassis ground) Connect to a clean, paint-free metal location. Connect to lighting switch terminal. Dock connector port iPod with Dock Connector Dock connector Interface cable 50 cm (20 in.) Orange/white Yellow/black connections. Yellow Red DEH-P690UB/XN/UC

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DEH-P690UB/XN/UC

Jigs List

Name	Jig No.	Remarks
Test Disc	TCD-782	Checking the grating
L.P.F.		Checking the grating (Two pieces)

Grease List

Name	Grease No.	Remarks
Grease	GEM1024	CD Mechanism Module, EXTERIOR
Grease	GEM1045	CD Mechanism Module
Grease	GEM1069	EXTERIOR



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Before shipping out the product, be sure to clean the following portions by using the prescribed cleaning tools:

Portions to be cleaned	Cleaning tools
CD pickup lenses	Cleaning liquid : GEM1004
	Cleaning paper : GED-008

DEH-P690UB/XN/UC

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